

The Maryland Yellowthroat

VOL. 39, NO. 1

JANUARY/FEBRUARY 2019

MARYLAND ORNITHOLOGICAL SOCIETY



WINDOW PAINS

an invisible problem with a clear solution

FEATURE

Take a Walk with a Lights Out
Baltimore Volunteer

PAGE 8

HELP BIRDS TODAY

Learn How to Build Acopian
Birdsavers with Safe Skies Maryland

PAGE 11

PHOTOS

Member Photos From Around the
State and the World!

PAGES 17, 24

The Maryland Yellowthroat
 Publication of the Maryland Ornithological Society,
 Inc.

Editor: Orietta C. Estrada
 yellowthroat@mdbirds.org

Copy Editor: Kathy Brown
 kathybrown07@verizon.net

Calendar Editor: Marilyn Veek
 mveekmos@yahoo.com

Chapter Chatter: Jean Wheeler
 jschweler3@verizon.net

Mailing List: Maryanne Dolan
 maryanne.dolan@gmail.com

Webmaster: Tom Strikwerda
 webmaster@mdbirds.org

Email submissions to the Editor by Jan 28 for the Mar/Apr
 2019 Issue.

Illus. ©M.Suzanne Probst

In This Issue

Editor's Note	3
President's Corner	3
Conservation Committee Fall 2018	4
Scholarship Winners for 2019	5
MOS Website Navigation	6
Maryland/DC Records Committee Status Report	7
Feature: Lights Out Baltimore:	8
DIY Acopian Birdsaers	11
YMOS News	12
Chapter Chatter	13
Books	18
Calendar	20
Bird Counts	20
Birding	21
Meetings	29



Editor's Note

In this edition of *The Maryland Yellowthroat* we feature articles from Lights Out Baltimore (LOB) and Safe Skies Maryland. LOB volunteer Jon Merryman takes us on his morning bird route in Baltimore (p. 8) and Safe Skies Maryland shows us how to build simple birdsavers with a DIY article (p. 11). Both organizations are committed to saving birds by raising awareness about window strikes and by bringing clear solutions to communities across Maryland.

On a lighter note...the finches are here! Evening Grosbeaks, Red Crossbills, Pine Siskins, and Common Redpolls have been reported in Maryland (p. 25). Red-breasted Nuthatches (a non-finch species) are also part of this irruptive year, and while they can regularly be seen in our western counties, they have been reported throughout the rest of the state.

Here are some tips for connecting with these birds, summarized from the [Winter Finch Forecast 2018](#).

Poor cone and birch seed crops are to blame (or thank) for this flight year. These birds are expected to show up at feeders, weedy fields, and in conifers (native and non-native). Evening Grosbeaks have appeared at feeders serving black oil sunflower seed, as have Purple Finches, Pine Siskins, and Red-breasted Nuthatches. Scan the Sugar Maples in your neighborhood; you just never know, that backlit, bird-shaped leaf, might be a grosbeak!

Red Crossbills have been seen and heard at the Prettyboy Reservoir in Baltimore County. For accurate identification use your smartphone to capture audio and submit to Cornell (details about this can be found in the *Winter Finch Forecast 2018*, link below). Crossbills are also expected to be heard/seen in weedy fields and at nyjer/thistle seed feeders.

It's a good idea to keep your feeders stocked and your eyes peeled this winter. Who knows what will be reported next...a Bohemian Waxwing? Only time will tell.

It's a good time to be a Maryland Birder!

See the full forecast via this short link: <https://bit.ly/2E6p1Gs>

Orietta C. Estrada, Editor
The Maryland Yellowthroat
Yellowthroat@mdbirds.org

President's Corner



On Friday September 21, I drove up to the Greater Philadelphia Expo Center to attend the fourth American Birding Expo. This was the first such event I had attended, so I had little idea what to expect. Some of you will have gone to the Expo but, for those who did not, I would like to share my impressions.

As soon as I entered the Expo Center it was clear that my planned early departure had gone out the window! There was such an enticing variety of booths for bird guide companies, optics and camera suppliers, bird apparel suppliers, conservation groups, and miscellaneous services and products. Most of the exhibits were for bird guide companies, with tours being offered all over the world.

One issue which interests me is safety. Rob Smith and his Colombian colleague advised me that Colombia has many safe areas for birding. For more information, visit www.wildaboutcolombia.com. The Guatemalan Tourist Board representatives assured me their country is also safe; visit www.birdwatching.com.gt. The brochures for both countries show a dazzling array of birds.

Tours in Costa Rica and neighboring countries are offered by Crescentia Expeditions (www.crescentiaexpeditions.com). Owner Mario Cordoba, and our very own Kevin Graff, were manning this booth. Many of you will know Mario from his Costa Rican trips. I stopped by the Guyana Tourism Authority booth. I visited Guyana in 1986, before there was any tourism and saw a lot of poverty — I was interested to see how far the country has come for birders. Jane Behrend of the Guyana Tourism Authority explained that there are now many birding sites in Guyana. For more information, contact Jane at: Guyana@emergingdestinations.com. Closer to home, bird trips are offered in and around the tiny Caribbean island of Anguilla (<https://www.facebook.com/NatureExplorersAnguilla/>) led by longtime resident Jackie Cestero. At the other end of the continent and beyond, Far South Expeditions (www.farsouthexpeditions.com) offers tours to Patagonia, Argentina, Chile and Antarctica. Their cruises in Tierra Del Fuego sound really exciting.

I visited the booths of two companies that lead tours in the Indian subcontinent. All India and Bhutan Birding Tours (<http://www.allindiabirdingtours.com>) have tours for birds and four-legged wildlife in many regions of India and Bhutan. Soar Excursions (www.soarexcursions.com) has birding tours throughout Indian, Sri Lanka and the Andaman and Nicobar Islands. Both companies promise spectacular birds.

Many tours in Uganda and Rwanda are available. Journeys Uganda (info@journeysuganda.com) leads birding and primate watching safaris in both countries. Birding and Educational Tours Ltd. (www.birdingrwanda.com) offers birding and wildlife (including gorillas) tours in Rwanda and Uganda. It was emphasized that Rwanda is one of the safest countries in Africa.

There were several booths devoted to birding trips in Australia and New Zealand. Inala Nature Tours (www.inalanaturetours.com.au) is led by Dr. Tonya Cochran and offers tours all over Australia. Paul Hackett of Melbourne Birding Tours (www.melbournebirding.com) leads tours in several Australian states. Wrybill Birding Tours, NZ (named after the country's unique shore bird with a bill bent to its right) had a booth at the Expo. They lead tours and will also give pre-trip advice for those who want to drive themselves — and save money. Birders wanting to visit New Zealand can go to the New Zealand Guide at www.birdingnz.co.nz for their comprehensive list of bird guide companies,

sanctuaries, and eco-lodges.

Ecotours of Hungary (www.ecotours.hu) offers tours in Belarus, Hungary, Romania, and Slovakia. Speyside Wildlife of Scotland leads tours to many of the wilder parts of the British Isles, including the Scottish Isles, the Hebrides, Shetland and Orkneys, and even the Isles of Scilly. In the early 60s, I spent an idyllic holiday in the Isles of Scilly. There I had my first good views of turnstones and terns.

Some companies offer tours all over the world rather than just one region. One such is Rockjumper (www.rockjumperbirding.com), who had an army of people at the Expo. Another is SKUA (www.skuanature.com). Netherlands-based Oceanwide Expeditions (www.oceanwide-expeditions.com) offers adventurous cruises to the Falklands, South Georgia and Antarctica. This company also leads expeditions to the far north, including Greenland. I was interested in the latter having hiked and camped in Central East Greenland while on a university expedition in 1971. At that time Greenland seemed utterly remote, wild and unchanging; I never believed that it would one day be open to tourists. How things change!

Birding trips in the US were also on offer. There are full and half-day trips at King Ranch (www.king-ranch.com); Ohio's Black Swamp Bird Observatory was announcing *The*

Biggest Week In American Birding, May 4-13, 2019 (www.biggestweekinamericanbirding.com); and a Kirtland's Warbler tour is being offered by Sabrewing tours (www.sabrewingnaturetours.com) from May 13-15, 2019.

The representative from the Cornell Lab of Ornithology explained their bird species ID app and gave an overview of the wealth of information on their website. If you have not done so already, check out academy.allaboutbirds.org (courses), birdcast.info (tracking migrations), and bna.birds.cornell.edu (comprehensive reference to North America birds) to name just three examples.

As I headed home, several impressions stood out. First, how formerly inaccessible areas are now open for birding (but, sadly how others are now off limits owing to wars and other human conflicts). Second, the willingness of bird guide companies to tailor trips to customers' desires. Third, these companies' commitment to conservation and giving back to the people and locales where they offer tours. Finally, I was struck by the rich variety of birding experiences now available and wish I had more years ahead and many more dollars to spare.

Sincerely,

Robin G. Todd, President
MOS

C&Q Canal Count 2019

The 2018 C&Q Canal Count marked the 19th effort in this series with a gap year in 2017. Count dates for 2019 are 1/26/19 thru 2/3/19. There are 184.5 total miles of birding potential, so your help is appreciated. Contact Jim Speicher (jugornought@gmail.com) for details.

Conservation Committee Fall 2018

 The fall quarter's actions were all letters. Committee member George Alderson was busy, penning three letters for us. The first was to the Forest Service seeking to defend the Roadless Rule in Tongass National Forest, in Alaska.

Another letter to the Bureau of Land Management addressed the illegal downsizing of Bears Ears National Monument in Utah. While the bulk of the letter concerned two areas within Bears Ears, it also advocated managing the whole monument for preservation until such time as the courts ruled on the legality of downsizing.

George wrote a similar letter on Grand Staircase-Escalante National Monument, also downsized by the current Administration. Both letters were informed by George's visit to both Monuments over the summer.

Kurt authored a letter to Customs and Border Protection regarding 33 miles of proposed border wall/levee in Hidalgo and Starr Counties, Texas. We pointed out the deleterious effect of such a wall on access to prized birding locations in the Rio Grande Valley, with corresponding negative effect on the ecotourism economy in a depressed region. We also pointed out bad effects on bird habitat.

Safe Skies concluded its first round of monitoring for crashed birds at Howard County Community College at the end of November. Final numbers of both individuals and species are still being tallied. At least half a dozen Ruby-throated Hummingbirds perished. Meanwhile, Safe Skies is also providing continuing education on bird-safe design at Howard Community College.

Kurt Schwarz, Conservation Committee

MOS Convention Pin Contest

The 2019 annual MOS Convention will take place in Chestertown, Maryland at Washington College May 31 - June 2, 2019. The deadline for the submission of entries for the pin design competition is February 15th, 2019. Competition rules will be sent to all artists who have submitted entries in recent years and will also appear on the MOS website. Briefly:

- The bird must be appropriate for the time of year and for the conference site: Chestertown, Maryland
 - It must contain the phrases “MOS” and “2019”
 - The artist must be a member of MOS.
 - Entries must be in HARD COPY.

Again, the **deadline for the 2018 Pin Design Contest is February 15th, 2019**, so, artists, start thinking NOW about birds that can be found during late spring at the Maryland Eastern Shore and adjacent areas.

Meg Harris, Chair

MOS 2019 Convention and Pin Design Contest

Hog Island Audubon Scholarship Winners for 2019

The Maryland Ornithological Society is happy to announce that it is awarding seven scholarships to the National Audubon Society's Hog Island camp in Maine for the summer of 2019. Representing Anne Arundel County are Christopher Hughes and Elizabeth Schilder.

Christopher Hughes has worked as a seasonal park ranger at Downs Park but has just been promoted to full-time ranger at Fort Smallwood Park — the Audubon Society has designated Fort Smallwood as an important bird area (IBA). Christopher will attend the “Field Ornithology” workshop. The workshop will broaden his knowledge of bird behavior, bird biology, and ecology. With the knowledge gained from this workshop, Christopher will be able to create new programs to help visitors better appreciate the wildlife and the environment in which they live.

Elizabeth Schilder is currently a park ranger at Quiet Waters Park in Annapolis, MD, which is part of the Anne Arundel County Recreation and Parks. Quiet Waters Park is on the South River and is home to several raptors. She will attend the “Raptor Rapture” workshop and hopes to create an Osprey program at the park.

Michelle Adams is a park ranger for Prince George's County and was recommended by the Patuxent Chapter. She will participate in the “Field Ornithology” workshop and hopes that it will help her give more in-depth information about bird species and bird behaviors to the students she leads on hikes and tours.

Julie Dunlap currently works with children and teachers as the education chair of the Audubon Society of Central Maryland and was recommended by the Howard Chapter. She will attend the “Joy of Birding” workshop which focuses on bird identification, behavior, habitat, and conservation needs. This workshop

fits perfectly with her goal of improving her field skills and communicating about wild birds more fully.

Elizabeth Kadow currently works at Lake Roland, a birding hotspot in Baltimore county. Elizabeth has the responsibility of educating young people through interactions in the nature center, during programs, and during informal conversations. On average, she can interact with anywhere from 50-400 visitors daily. She feels that attending the “Field Ornithology” workshop will greatly help her hone her birding skills.

Krishni Patrick is the school-wide Science STEM teacher to almost 700 students in Grades 3, 4, and 5 at Piney Branch Elementary School, in Montgomery County. Krishni would like to enhance outdoor education opportunities for all of her students. She hasn't decided whether to sign up for “Sharing Nature: An Educator's Week” or “Field Ornithology” but knows that either will help her to expand her students' knowledge by exploring more of the natural world.

Brooks Onley is an interpretive park ranger, at Assateague Island National Seashore, who has an intense interest in learning about wild things of all sorts. He was recommended by the Tri-County Chapter. Brooks is also the primary environmental educator at the National Seashore and presents dozens of programs for hundreds of grade-school children throughout autumn, winter, and spring. Brooks will attend the “Field Ornithology” workshop and is eager to improve his ornithological expertise so as to better educate future generations on the wonders of bird life and the importance of preserving their natural habitat.

Congratulations to these 2019 Hog Island Campers and also to the chapters and colleagues who recommended them.

Anna Urciolo, Chair MOS Scholarship Committee

MOS Website Navigation

This is the second in a series of articles highlighting features of the MOS website. The website was totally revamped, replacing the original one on August 1, 2018. The first article summarized features of the member portal, where members may join/renew and pay dues, as well as modify some of their personal information such as address and several selections. This column will highlight the main navigation features and organization of the website. Although much can be learned by exploring all the menus, I thought it would be helpful to highlight several items and features you might have missed. Please note that this column describes features as they appear on a desktop and laptop computers. Tablets and handheld devices will show items differently but should have most items described. If you find major discrepancies between smaller and larger devices please contact the webmaster; it's possible there may be errors that can be repaired or feature that can be modified to enhance performance.

Several key features help you navigate. Every page has several rows of text across the top. At the very top are “**hot links**” in orange that quickly take you to several key pages such as [Join](#), or other sites, [eBird](#) and [MBCP](#). “**Maryland Ornithological Society**” in the upper left corner is not just our organization's name but also serves as the “home” button that appears on many websites. Just click it if you're ever lost or need to get back to the beginning.

To the right of the home button, are the **main menu** items – currently there are eight. With the wealth and diversity of information on our site it was difficult to organize all of it logically under a limited number of top-level menu headings. Thus, the location of some items under a main item may not be intuitive; over time I hope you'll learn where to find what you need. Clicking each top-level menu item takes you to a page with brief information about that topic. But you don't have to click everything to find some items. Instead, just hover over one of these menu items to reveal a submenu to list what lies in a separate page beneath the main menu item, maneuver to the item you're looking for and click. We've tried to keep the number of “tiers” to three so all major topics will be revealed with hovering.

When you find a page you're looking for, take a look at the name of the page, under the home button and the next line. That second line is the **breadcrumb** for that page. A timely example for this issue is the “**Mid-Winter Count**.” The breadcrumb is “Home/Go Birding/Count Birds/Mid-Winter Count”. Breadcrumbs show you where you're at in the hierarchy. This may be helpful since some pages may be cross-referenced from other menus and pages and if you land here you may not realize where you are, should you wish to return later. You may even wish to bookmark a page for reference. It may be tempting to think of the menu structure as a “tree,” but in fact a better analogy is a loose web — a given topic might be linked to from several other pages and it may link to several other pages as well.

If you can't find a tidbit of information or page that you know or think exists, click the **Search** icon, a small magnifying glass, (currently only works on a desktop or laptop). Search will list relevant pages; if too many are listed, refine your search. Note the breadcrumb after to find your topic so you'll learn where to find it next time.

When you type <http://mdbirds.org> or just mdbirds.org/ your web browser takes you to the **homepage**. The main feature is the carousel with striking pictures overlaid with messages and active links for more information. Our goal is to have all photographs supplied by members of MOS and periodically cycle in new images. If you'd like to contribute photos for the carousel, please check back for a future column that will discuss the requirements in more detail. Besides highlighting MOS photographers, the purpose of the carousel is to attract the general public and other birders with eye-catching, active images.

Significant up-coming events will be highlighted on the carousel and/or lower down on the main page. Two recent examples are the latest *Yellowthroat* release and the YMOS/MBCP symposium in late January. If a message and link on one of the carousel photos interests you, click that link, which takes you to the relevant page and more information. Otherwise you may choose to scroll down (note the downward pointing arrow at the bottom of the screen). These lower screens provide an overview of what's on the site. Similarly, click any of the buttons in these sections to reveal a page about that topic, the same page that can be reached via the main menu headings, as described above. At the bottom of the homepage you'll find a short list of upcoming events and field trips on the right side, donation buttons, chapter listings and mailing address.

Most **submenu pages** are formatted similarly to one another. Text and photos are on the left side and a menu structure for that topic and subtopics on the right side. A small calendar may also appear in the lower right corner. Days with events show a dot, which can be clicked to show the events for that day. In the text portion of the page you'll see highlighted text. In most cases clicking that will either bring you to another, related page or bring up a blank email to send a message to the key person in charge of the event or topic on that page (for example the Mid-Winter Count coordinator, in the example described above).

Have fun exploring the MOS website. Information is updated and new items are added occasionally. Given the sheer number of pages and linkages, there are bound to be some “broken” links; please let the webmaster know about these. And if you can't find something that was on the old site that you'd like to have here, please pass along suggestions as well.

Tom Strikwerda, Webmaster
webmaster@mdbirds.org

Maryland/DC Records Committee Status Report

November 27, 2018

The Maryland/DC Records Committee (MD/DCRC) has reached the following record decisions since the latest committee status report was published in *The Maryland Yellowthroat*. This report covers MD/DCRC review package 176. MD/DCRC report numbers are in brackets. These records will be addressed in additional detail in a future issue of *Maryland Birdlife*. A new Maryland “state” species (marked with an asterisk) includes a species of the Zino’s/Fea’s Petrel complex. This addition brings the total species on the Official Lists of the Birds of Maryland to 453. The total number of species on the Official Lists of the Birds of the District of Columbia remains at 342.

More information on the MD/DCRC can be found on the committee’s web pages at the following URL:

<https://mdbirds.org/records-committee/>

MD Records Accepted

Black-bellied Whistling-Duck, *Dendrocygna autumnalis* [MD/2018-046] Hampshire neighborhood lake, Hampshire, Charles County. 16-Jul-2018. Ten birds.

Wilson’s Plover, *Charadrius wilsonia* [MD/2018-049] Assateague Island National Seashore, Berlin, Worcester County. 12-Aug-2018. Three birds; one adult and two others, possibly an adult and immature.

Common Murre, *Uria aalge* [MD/2007-040] Atlantic Ocean, Pelagic Zone, Worcester County. 25-Feb-2007. One bird.

Common Murre, *Uria aalge* [MD/2011-037] Atlantic Ocean, Pelagic Zone, Worcester County. 05-Feb-2011. One bird.

Common Murre, *Uria aalge* [MD/2011-034] Atlantic Ocean, Pelagic Zone, Worcester County. 05-Feb-2011. One bird.

Common Murre, *Uria aalge* [MD/2011-209] Atlantic Ocean, Pelagic Zone, Worcester County. 26-Feb-2011. Five birds on the water.

Common Murre, *Uria aalge* [MD/2011-211] Atlantic Ocean, Pelagic Zone, Worcester County. 26-Feb-2011. Two birds on the

water.

Common Murre, *Uria aalge* [MD/2011-206] Atlantic Ocean, Pelagic Zone, Worcester County. 26-Feb-2011. One bird on the water.

Common Murre, *Uria aalge* [MD/2011-208] Atlantic Ocean, Pelagic Zone, Worcester County. 26-Feb-2011. One bird on the water.

Common Murre, *Uria aalge* [MD/2011-210] Atlantic Ocean, Pelagic Zone, Worcester County. 26-Feb-2011. One flyby.

Common Murre, *Uria aalge* [MD/2011-205] Atlantic Ocean, Pelagic Zone, Worcester County. 26-Feb-2011. One bird on the water.

Thick-billed Murre, *Uria lomvia* [MD/2010-022] Assawoman Bay, Ocean City, Worcester County. 16-Mar-2010. One bird.

Thick-billed Murre, *Uria lomvia* [MD/2018-012] Assateague Island National Seashore, Berlin, Worcester County. 08-Mar-2018. One bird in winter plumage.

Trindade Petrel, *Pterodroma arminjoniana* [MD/2018-025] Atlantic Ocean, Pelagic Zone, Worcester County. 31-Jul-2013. One dark bird.

*Zino’s/Fea’s Petrel, *Pterodroma madeira/feae* [MD/2013-042] Atlantic Ocean, Pelagic Zone, Worcester County. 31-Jul-2013. One bird.

MD Records Accepted-Group

Pterodroma species, *Pterodroma* sp. [MD/2013-054] Atlantic Ocean, Pelagic Zone, Worcester County.

31-Jul-2013. One bird, dark morph.

Pterodroma species, *Pterodroma* sp. [MD/2018-024] Atlantic Ocean, Pelagic Zone, Worcester County. 31-Jul-2013. One light bird.

Phil Davis, Secretary MD/DCRC

2019 MOS Convention Field Trip Leaders Needed

The next MOS convention will be held May 31 - June 2, 2019 at Washington College in Chestertown, Maryland. We have started organizing the convention and are looking for MOS members to lead field trips. Field trip locations are being determined now based on previous convention sites and include: Andelot Farm, Chesapeake Bay Environmental Center, Chesapeake Farms, Eastern Neck NWR, Libby’s Nature Trail, Millington WMA, North and South, Pickering Creek Environmental Center, Royal Swan Farm, St. Paul’s Church and Millpond, Shehan Audubon Sanctuary, Tuckahoe State Park, Sassafras NRMA, and Chino Farms.

If you are interested in supporting next year’s convention as a trip leader, please send your contact information - **name, email address, and phone number** - to Jim Rapp, dlitedirector@comcast.net ASAP. Indicate which half days you can participate (Friday PM, Saturday AM and/or PM, and/or Sunday AM), any particular location(s), and how many trips you would like to lead. If there are other potential sites not listed above, please provide those locations to me and we will investigate including them. If you would like to co-lead, indicate that as well and with whom it would be. Thank you for your consideration and support for MOS.

Meg Harris, Chair MOS Convention 2019

mctharris@gmail.com

Lights Out Baltimore: Saving Birds One Building at a Time

By Jon Merryman



Lights Out Baltimore (LOB) is a project of the Baltimore Bird Club with the mission to make Baltimore safe for migratory birds.

In its 10th year, LOB has rescued 1,012 birds, 46 bats, and collected over 3,000 dead birds by monitoring 20-25 buildings during migration.

LOB has worked to have Baltimore recognized as a USFWS Urban Bird Treaty City; installed bird-safe film and birdsavers on buildings; curated conservation-related art shows; partnered with the Baltimore Office of Promotion and Arts to make the Light City festival bird-friendly; inspired the Baltimore Ravens to consider birds in stadium upgrades; and created two monitoring groups on local college campuses. It has been 10 years of hard work, but LOB is just getting started.

Cities are an asset to modern society. They bring us economies of scale and jobs that go with that, but as we know, they also bring issues we find difficult to deal with at times. Cities have not only spread out over time, but also upward, and as a way to counter the shadowy darkness often created by the canyons of city streets, architects and engineers have maximized the amount of glass used in modern day skyscrapers.

More glass means more light coming into our living spaces and places of work, but what it also means is hundreds of millions of dead birds as they migrate along their well-documented flyways throughout the United States. There are several North American cities with volunteer organizations trying to improve this situation for birds, and in central Maryland, LOB is celebrating 10 years of making a difference through advocacy, awareness, and mitigation.

Take a Walk With LOB

Toward the end of this 10th fall season, I follow my normal 5-mile set route through downtown Baltimore, which was extended more than a week beyond our typical Halloween wrap-up, because the birds were clearly still migrating in large numbers.

While Ravens and Steelers fans amble about the streets on this Sunday morning, I begin at one of our popular meeting points. The first building I approach is often an accurate indicator of how uneventful, or tragic, the morning will be, and this morning is not off to a good start. This lobby, with glass on all four sides, has a dozen birds scattered about its perimeter. Some birds are already dead, some only stunned, and one is clearly in shock — belly up, feet twitching.



I approach the shocked bird first as a few others fly off in random directions, one of them glancing off the window again. We must be careful in our approach as to not scare the birds directly into a waiting pane of glass, so we are often seen slinking alongside the window as we approach with our nets.

Since this White-throated Sparrow is completely unaware of my presence, using the handle of my net, I roll it onto its side, which helps bring it out of shock and into a state of semi-consciousness. It's clearly not doing well. I scoop up the bird and gently lower it into a brown paper bag I have prepared with half a paper towel placed in the bottom. This provides a bit of cushioning and, for the perching birds that we find, something to grasp onto. Birds that survive, then go to a rehabber that we partner with, usually Phoenix Wildlife Center. With the first bird collected, I turn my attention to the other birds still sitting on the ground, upright, and staring at the glass, stunned or injured. I often talk to the birds that are still alive. Words of encouragement. Asking them to cooperate. Jokingly calling them names, but nothing harsher than "dummy," for getting into this mess.

Collecting up the bodies, I catalogue the observed species using iNaturalist. Two White-throated Sparrows and a Swainson's Thrush. Even though she's not here today, I can hear the heavy sigh of my bird-walk partner, Nicole, in my mind. Sometimes there are no words to describe the feeling and a sigh is the best you can do.

Sometimes there are no words to describe the feeling and a sigh is the best you can do.

On slower days, we take the time to make sure we've identified the bird accurately. Today however, I don't have the luxury of dwelling over whether it was a Hermit or Swainson's. There are most likely birds lying in front of several windows already, waiting for someone to come along and save them, if possible. I have to move quickly.

At the next building I don't find any injured or dead birds. This brings me a glimmer of hope that the first building was just an anomaly. I hustle across the square to Building 3, taking the stairs, two at a time, up to the all-glass entrance. Right away I spot another dead Swainson's. On the other side of the revolving door I find a second bird, another White-throat. As I get closer, what looks like a leaf lying about three feet away is actually a bird. With a tan and brown speckled belly and two feet clearly pointing skyward, it's the size of a hummingbird but the shape of a wren, but definitely not one I had seen before on our bird walks.

I often experience a brief moment of excitement when finding a bird that's "new to me," even when it's injured or dead. Having that ability to hold the dead bird in your hands, extend its wings, spread its tail, and see its markings close up — that experience is tough to match when observing birds in the field. Then inevitably, the questions follow for this out-of-practice birder, *Are these rare? Did we just lose a measurable percentage of the population passing through Charm City? Could this be the bird that nudges people into action for this building, or even this one window?*

In my combined moment of reverence and excitement at finding this tiny bird, I go to my app to see if I can positively ID it. It's a Winter Wren. Not rare. Quite common, just new to me.

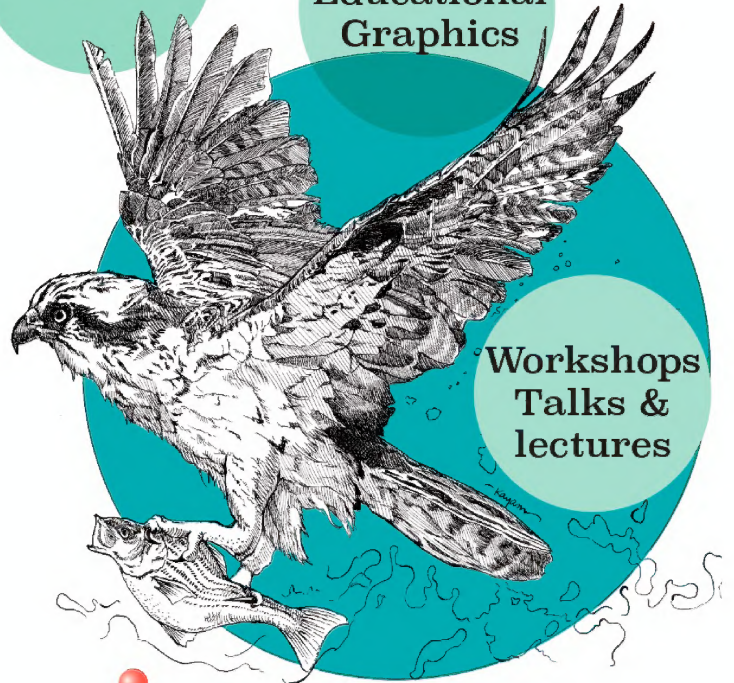
continued on page 10...



**Custom
Art**

**Educational
Graphics**

**Workshops
Talks &
lectures**



Studio Kayama
Medical & Scientific
Illustration

· studiokayama.com ·



studiokayama



ikumikayama



ikumikayama

...continued from page 9.

Did we just lose a measurable percentage of the population passing through Charm City? Could this be the bird that nudges people into action for this building, or even this one window?

On the backside of Building 3, I find another dead White-throated Sparrow at the revolving door entrance. Building 4 has no casualties, but I do find the cleanly severed head of a pigeon about 50 feet from the nearest window, most likely the discarded cornucopia of a Peregrine Falcon's recent lunch. We often find other difficult-to-eat pieces of birds littered about the sidewalks of Baltimore's tallest buildings — a sapsucker wing or the feet of a Mourning Dove. A gentle reminder that death, in some cases, is absolutely necessary for life.

Walking up to Building 5, a security guard catches my attention. He knows of an injured bird and wants to take me to it. The sparrow he shows me, on the concrete stairs next to the window, is attempting fly, but seems to have no use of its legs. I cup the little guy into my hands, mumble a few empathetic words, lay him at the bottom of another napkin-lined paper bag, and seal the top with a clip. By the time I finish with Building 5, it has contributed four White-throats and a Song Sparrow to the day's tally.

Nothing at Buildings 6 through 9 but Building 10 adds another White-throat to my already insane total for the morning. Buildings 11 through 13 also are safe, although at this time of the morning we suspect birds sometimes get cleaned up by the janitorial staff. A few of the sidewalk sweepers have special places that they will leave birds for us — a clever compromise between cleaning up and helping us with our efforts.

More deceased White-throats at Buildings 15 and 16, directly across from each other on Pratt Street. Looking down a side street on the west side of Building 18, I find another sparrow, but different than the others, and the first bird I'd ever found at this particular window. As I attempt to ID it, a group of young ladies stroll by searching for a breakfast spot. While three are oblivious to my presence, one looks over and asks, "Is that a real bird you're holding?"

"Yep, it looks like it might be a Field Sparrow," I say, "and looks like it smacked into this window earlier this morning." I then take the time to tell her about the mission of LOB, about the bucket of birds I had collected over the past few hours, and about the fate of those we find still alive. She's the eighth individual to stop and

ask about my actions this morning. She thanks me for taking the time to talk to her and rejoins her friends. A dead bird can be an effective, albeit silent, messenger.

As I add up the day's carnage, I peek into the paper bags to see how the rescues are doing before making the journey to Phoenix Wildlife Center. One is still fluttering, clearly still hanging on, but the very first bird I picked up this morning is on its side, motionless, on a stained paper towel at the bottom of the bag. *One more for the casualty column...* I curse quietly to myself. Nineteen...20...21 in all. Not our worst day, that was when 67 birds were found, but still, a solid punch to the gut.

Deep breath. Heavy sigh. Onward I walk. Here's to the next 10 years of progress in Baltimore.

Jon Merryman has been a Lights Out Baltimore Volunteer for nearly five years.



Learn more about LOB at

<http://www.lightsoutbaltimore.org/>

Place Your Announcement in *The Yellowthroat*

Reach members interested in your bird-related services by placing an announcement in *The Maryland Yellowthroat*. For more information

contact the Editor:

yellowthroat@mdbirds.org



DIY Acopian Birdsavers

From day one, the founding group of Safe Skies Maryland talked about how best to save birds — right now. We decided to focus on glass because it kills birds all day long.

We foresaw the potential delays, inherent in conducting studies over long periods of time, where the outcome might not lead to a commitment to retrofit buildings for bird safety. By working with the community, on addressing the issue of bird collision mortality, we determined that prevention would be the most effective way to help birds.

One of our most immediately accessible and cost-effective solutions has been the widespread utilization of the Acopian Birdsavers. This bird excluder is a hanging curtain made of paracord that is placed on the outside of a window. It hangs at vertical intervals of 4 inches which is consistent with the 2x4 rule. The rule refers to the dimensions that together, or separately, create a visual pattern that birds can see. A bird will not attempt to fly through such a small space.

How Many Birds is Too Many?

It isn't possible to answer this question. It's subjective, and it's a global question with global consequences, especially when it comes to migratory birds. Even if a particular company states that it only kills a few birds a year, we know that the birds we see are those that have not been taken by a predator or scavenger. We've seen the evidence and we know that a bird removed by other animals cannot be counted.

We also know that a few bird strikes at every glass window, all over North America, adds up to a figure of a billion birds lost per year — a billion healthy birds. For that reason, we have spent countless hours working in the retrofit arena with concerned business owners and managers, while pursuing meaningful legislation that would help building operators avoid this issue altogether in the future.

Acopian Birdsavers

The Acopian Birdsavers have served to be both the solution of choice as well as the first phase of what will be multiple phases of ongoing retrofitting at several locations throughout the state. We've taught kids at summer camp, teens, Conservation Job Corps workers, members of the community, and businesses how to build Acopian Birdsavers. It's so easy that you'll wish you had already tried it yourself!



DIY Acopian Birdsavers

Preparing the Paracord

First, preshrink the paracord. Soak the paracords in a bucket and hang them out to dry. Then you can use the paracord knowing that the dimensions you cut will stay that way for as long as you leave them in place. (Note: knowing the basic dimensions of the window you want to treat is important for ordering paracord.)

Paracord comes in almost every conceivable color, but olive/military colors tend to blend in naturally. Users who choose olive/military colors report that they forget the window treatment is even there, so unless you are feeling particularly creative, we recommend those colors.

Trimming the Paracord

To get the length of the window, we often just hold up the paracord to the window, eyeball it, and trim it. That piece is then used as the template for all subsequent pieces.

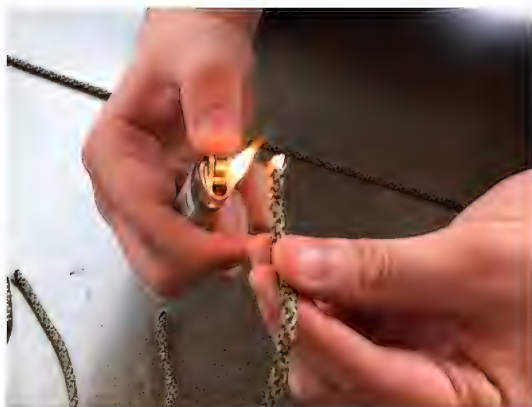
After cutting all of the vertical pieces that will span the width of your window, burn the ends of the paracord pieces. Burning the ends, melts

Tools

- A Bucket
- Water
- Paracord
- Scissors
- Lighter/Heat Source
- A Horizontal Support
- Zip Ties or 3M Hooks



continued on page 12...



...continued from page 11.

the paracord, seals them, and prevents fraying over time. Attach the vertical paracord pieces to the horizontal support, spacing them 4 inches apart.

Attaching the Paracord

When attaching the vertical pieces of paracord to a horizontal support, there are many options. We have often utilized a top, horizontal piece of paracord that supports all vertical pieces. We affix the horizontal piece of paracord to the structure, sometimes with zip ties (where they will not be seen) and sometimes with command hooks (for smaller applications). Alternatively, you might also want to use a J channel, predrilled at 4-inch intervals, to hold the vertical pieces.

While most online sources suggest making a template out of a board with nails, spaced every 4 inches, to guide in the process of making the horizontal paracord support piece, we quickly learned that once tightened, the knots tended to give way and our vertical pieces did not remain 4 inches apart. A new guide with nails spaced every 3 and 3/4ths inches apart was tested and proved to be our new go-to solution for a template with which to work as tightening knots did not create a margin of error greater than 1/4th of an inch.

Once you've attached all of your vertical paracord strips to the horizontal support, your project is complete!

Help Birds See Glass

In addition to food, water, shelter, and places to raise young, birds need our help navigating glass spaces. With the incidence of window-strike mortality being about equal at businesses and individual homes, we believe the Acopian Birdsavers idea will continue to grow in popularity. Set an example for other Marylanders today and do one of the most effective and immediate things that can be done to protect birds — build your own Acopian Birdsavers!

Send us a photo of your Acopian Birdsavers project and we'll showcase it on our website.

We stand ready to assist.

For more information visit www.safeskiesmaryland.org and www.birdsavers.org.

YMOS News Fall 2018

Announcing the Annual YMOS Birdathon March 16-17, 2019

The young birders in the Youth Program of the Maryland Ornithological Society (YMOS) will once again explore the shorelines, marshes, woods and fields of Maryland's Eastern Shore in quest of at least 100 bird species. The quest is anything but a "gimme" in mid-March on Delmarva, but you can be sure they will be up to the challenges posed by early waterfowl departures, very early spring migrants, and, oh yes, the weather (there are no rain dates!).

The annual YMOS Birdathon is the principal fund raiser to underwrite expenses for representing MOS in the World Series of Birding (WSB), the world's foremost birding competition organized by New Jersey Audubon, in May. The youth invite your pledges of \$0.25, \$0.50, or \$1.00 per species seen over their two days in the field.

In addition to the challenges posed by the weather and the birds themselves, the youngsters construct an advance list of 100 "Must-See" species. Their final results require that they see two additional species to make up for any Must-See miss. Further, 90% of the participants must see or hear each species identified. Overcoming all these challenges requires planning and decision-making coupled with a high level of collaboration and sharing that is a YMOS hallmark. And, lest we forget, it's still great fun!

The 2019 WSB cadre is turning out to be one of the largest in recent years, with up to 20 participating students. The YMOS will field two high school teams. The Marsh Giggles will cross NJ in an attempt to repeat winning their Division (199 species) last year. There will also be a high school "Carbon-free" team which must bird the Big Day without the aid of any motorized transportation. Finally, there will be two middle school teams birding the counties around Cape May.

You can pledge any time prior to the Birdathon by emailing George Radcliffe (radclifg@gmail.com) or Wayne Bell (wbell2@washcoll.edu). Those who pledge will receive an advance copy of the Must-See list. After the Birdathon, you will receive a report of all species identified and the amount you owe based on the net species total after any penalty deductions for Must-See misses.

Thank you in advance for your encouragement of this remarkable group of youngsters and, of course, the parents and coaches who rise early and drive long hours to make it all happen.

George Radcliffe and Wayne Bell, YMOS

The first-ever Maryland Bird Conservation Symposium is being held January 26, 2019, at the National Wildlife Visitor Center in Laurel MD. All sponsorships and proceeds go the new Maryland Avian Research and Conservation Fund for Youth. Will your MOS chapter consider sponsoring? And we hope to see many of you there! See <https://marylandbirds.org/2019-symposium> for details.

CARROLL COUNTY

CCBC Exhibits at Apple Festival

The annual Apple Festival was held at Piney Run Park on September 29th and the Carroll County Bird Club was well represented.

Members *Maureen* and *Dave Harvey* set up our newly revised exhibit on a table borrowed from another member, *CJ McCauliffe*. The Nature Center provided the bird specimens.

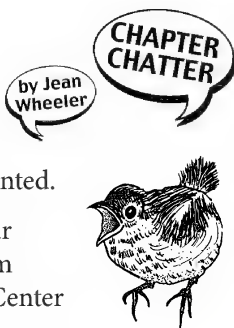
Quite a few people stopped by to ask about the club. Brochures and membership information were available. *Don Jewell*



CECIL COUNTY

Cecil Bird Club wins the Daily Double at the American Birding Expo in Philadelphia hosted by Bird Watcher's Digest. Club member *June Mundis* won a birding tour of Anguilla in the Caribbean while *Ken Drier* took home the grand prize, a week's trip to Ecuador with Jocotours. If you missed the last two years Birding Expo in Philadelphia, no problem. The Philly site proved so successful that they decided to hold it again next year at the same location rather than look for a new site further west. The Expo is all things birding from travel info, to optics to clothing and more. A great way to spend a day. Next year's will be held September 20-22, 2019 just in time to do some Christmas shopping for your birding friends or family members. "The World of Birding in one place," is their catch phrase.

Ken Drier traveled to Texas for the 25th annual Rio Grande Valley Birding Festival. If you haven't birded southern Texas the festival will offer a good introduction to the area. The festival runs five days with multiple field trips every day plus works shops, a birding bazaar with more than 60 venders, happy hours and entertainment. Ken signed on for a trip to see the Aplomado Falcon and a visit to the King Ranch for the Ferruginous Pygmy-Owl, Northern Beardless-Tyrannulet, and Audubon's Oriole. All were spotted. Other outings produced Common Pauraque, Least Grebes, and three different parrots. While birding on his own Ken grabbed the Golden-crowned Warbler and a Masked Boobie that were getting everyone's attention that week. Over the course of the week Ken tallied 151 birds of which 15 were life ones. The festival is always in early November. Next year's will be November 6 - 10, 2019 so mark your calendars. It is housed in Harlingen, Texas.



Club President, *Maryanne Dolan* spent 10 days in Ecuador with the Delaware Nature Society. She saw over 200 species of birds almost all life birds. Bird of the trip had to be killer views of a swallow-tailed nightjar, but quite a few hummers and tanagers came in a close second. She traveled with a great group of people mostly birders, but photographers as well. She also straddled the equator with one foot in the Northern and one foot in the Southern Hemisphere. Ecuador is a great place with great birds. Put it on your bucket list.

Recently you were introduced to Cecil club member *David Francis*, botanist, and author of *The Laughing Olmec*. This is the book where he tells us of his adventures exploring the forest region of central Mexico while backpacking. The first week of November David had just returned state side after a couple weeks walking the Camino de Santiago in Spain as a tune up to his next Mexico trip. He states he walked about 200 miles. During that time he estimates that he saw one "non distinct bird, probably a kite." Maryanne and Ken can probable throw a few his way to boost that trip list count. This is at least his fourth pilgrimage along this UNESCO World Heritage Middle Ages highway. *Ken Drier*

HARFORD COUNTY

Eight members and friends of the Harford Bird Club spent 3 weeks Down Under and enjoyed the beauty, birds, and people of Eastern Australia in October 2018. The trip covered the Cairnes area including the Great Barrier Reef, Brisbane and the famous O'Reilly's Resort, and finished in the Melbourne region. Participants included *Jean Wheeler*, *Sarah MacLellan*, *Dennis and Jean Kirkwood*, *Bob and Susan Hood*, *Tom Congersky*, and *Bob Murphy*. Andy Walker of **Birding Ecotours** was the leader. Highlights included "crackin" good looks at platypus and echidna; Southern Cassowary and Emu; both Albert's and Superb Lyrebird (the largest passerine); Plains Wanderer; Major Mitchell's Cockatoo, and Little Penguin. If you can stand the long plane flight, it is a fabulous country to visit with flora and fauna unique to anywhere else in the world. We finished just shy of 400 bird species with more than three-quarters life birds. *Dennis Kirkwood* See page 17 for photo.

MONTGOMERY COUNTY

Cheryl Hogue writes, "Business travel took me to a conference in Sacramento, California, in early November. I took advantage of the field trip the conference offered to Cosumnes River Preserve, south of the city. There, we had sunny views of wintering Sandhill Cranes as well as waterfowl, raptors, and garden birds including California Scrub-Jay. I nabbed a lifer, a Golden-Crowned Sparrow that provided me with a long, unobstructed view while it methodically gobbled seeds off a stalk. Later, one of my new birding pals at the conference pulled me aside and told me about the Yellow-Billed Magpies nearby. During a break in the meeting, I grabbed binoculars, camera, and an Uber to Discovery Park. The place was virtually deserted when we pulled up. "What's here?" my driver asked. "Birds!" I replied. And there they were -- noisy, handsome magpies foraging under oak trees. As a bonus, I spotted a red-shafted Northern

Flicker. And I managed to get back to the conference before the break ended! See page 17 for photo.

Mike Bowen and Anne Cianni report they spent the first week of November in Costa Rica with a "Relaxed and Easy" birding tour led by VENT's ace Venezuelan Leader, David Ascanio. "The tour started at the beautiful Hotel Bougainvillea in the northern suburbs of San Jose, where the gardens provided almost 40 species, and went on to the Cerro de la Muerte area southeast of San Jose for two nights, based at the comfortable Savegre Lodge 8000 ft. up in the mountains. Highlights of the stay there included three



Resplendent Quetzals – a male and two females – in a wild avocado tree that a local farmer had wisely decided not to cut down and a Volcano Junco seen close at hand in a chilly mist above tree line at 12,000 ft. Next port of call was in the Puerto Viejo/La Selva area in the Caribbean lowlands northwest of San Jose. The group's base there was the La Quinta de Sarapiquí Country Inn, where the well-stocked feeders afforded great views of the local tanagers, honeycreepers and saltators. A short drive into the famous La Selva Biological Station took a while, because there were 25 species *along the entrance road*, including a well seen Black-faced Grosbeak. A ride in an aerial gondola near Braulio Cabrilho National Park afforded a close view of the seldom spotted Black-necked Umbrellabird, while a boat trip on the Sarapiquí River gave the group great views of a close Sunbittern and Bare-faced Tiger-heron. And let's not forget the 27 species of Hummingbird! Two-hundred twenty-seven species in a week? No problem if you're in the birding paradise of Costa Rica."

Gail Mackiernan and Barry Cooper wrote they spent 9 days in September in southeast Maine, visiting friends, shopping, eating "lobstah" and doing a lot of birding! "They made several visits to the noted migratory hotspot of Cousins Island, (near Portland) where over four days they tallied hundreds of migrants. These included an estimated 300+ warblers of 18 species, plus other desirable migrants such as Philadelphia Vireo, Alder and Olive-sided Flycatchers. A whale-watching trip was less productive, however, as this year the whales were found within sight of land – great for everyone except those looking for seabirds! Pine Point and Scarborough Marsh once again proved great for shorebirds,

best being American Golden Plover and a number of White-rumped Sandpipers, but we dipped on the Little Egret that had been seen there earlier in the week. Most interesting "bird" at the Rachel Carson NWR's Timber Point Trail was a Porcupine, but always nice to see the resident Common Eiders and Black Guillemots offshore. All in all, a great escape from Maryland's torrid summer!"



Our one-time trip leader and then expat birder Tom Marko writes that he has now returned to the states after 10 years of living overseas to include Japan, Germany and Italy. Tom and his wife Joanne recently purchased a retirement home on Hilton Head Island in South Carolina. He exclaims that the "Low Country" of coastal South Carolina and Georgia is a birdwatcher's paradise with several national wildlife refuges and coastal beaches just a short drive away. Tom is now a member of Hilton Head Audubon and will participate in their Christmas Bird Count in December.

PATUXENT BIRD CLUB

The Board of Directors of the Patuxent Bird Club has voted to provide \$1,200 in funding for the construction of a footbridge at the Piscataway MOS Sanctuary in Accokeek, Prince George's County. The funds will come from the Patuxent chapter's share of the disbursement of the Martha Chestem bequest that MOS made to chapters last winter.

Piscataway Sanctuary features a trail through a stream valley near the northern boundary of the property, but a tributary stream runs across the trail, and this stream has deep and steep sides, lined with stabilizing boulders. Currently, the stream crossing presents a significant barrier to walking the north side trail at the Sanctuary.

The MOS Sanctuary Committee, chaired by Dominic Nucifora, developed a proposal to build a bridge to span the creek, but the Sanctuary Committee does not have sufficient funds in its own budget to pay for the bridge materials. Hence the Patuxent Bird Club voted to fund the project. We hope that with the bridge in place, we can begin offering regular field trips to this MOS sanctuary in our own county.

To learn more about the 82-acre Piscataway MOS Sanctuary, go to <https://bit.ly/2reehx4>. Marcia Watson

TRI-COUNTY

Doug Ruby led a group of Camp Swatara birders to Cape May for the weekend November 2-5 and was treated to the first of the season juvenile Goshawk fly right at eye level in front of the Hawkwatch at Cape May Point! Doug Ruby

Marcia Balestri and Kathy Calvert (Frederick Bird Club) sailed on the Searcher's 5-day pelagic tour out of San Diego. They traveled



over 9 Mile Bank, north past Los Angeles around the Channel Islands, past the San Juan Seamount and Cortez Bank, and back to San Diego. Highlights of the trip were 4 Booby species (Red-footed, Brown, Masked, and Nazca), 4 Storm-petrel species (Leach's, Black, Ashy, and Townsend's), Black-footed Albatross, Red-billed Tropicbird, Cook's Petrel, Cassin's Auklet, Guadalupe Murrelet, and Craveri's Murrelet. Marine mammals also made appearances including Blue Whale, Fin Whale, Risso's and Short-beaked Common Dolphin, and the rare Baird's Beaked Whale.

After the pelagic, Marcia's long-time friend, Catherine Pauls, joined Kathy and Marcia, and over the next 4 days the trio looped around southern California searching for lifers and California specialties. They first birded around San Diego, went north to Orange County, and west to Salton Sea for the Yellow-footed Gull. Highlights included California Gnatcatcher, California Thrasher, Ridgway's Rail, Scaly-breasted Munia, Greater Pewee (rare for the area), and Ruff. Kathy and Catherine piled up the lifers, and Marcia added to her California list.

Marcia said goodbye to Kathy and Catherine, and met up with Bob, her husband, where they continued their journey. They spent 3 days in Los Angeles doing touristy things like the Griffith Observatory, the Getty Museum and Villa, the battleship Iowa, and the Aquarium of the Pacific. Marcia picked up a lifer, Bell's Sparrow, at Apollo Park west of Los Angeles. They then hopped on the Coral Princess cruise ship that took them to various ports in Alaska, Japan, Korea, and China for great sightseeing and a few lifers for Marcia. In Japan, she picked up Pygmy Woodpecker, and in Korea she saw a mixed flock of both Taiga and Tundra Bean Geese. Unfortunately, they sailed through one typhoon and skirted another, so they missed 2 ports in Japan, Kushiro and Osaka. Kushiro was one of the main reasons Marcia signed up for this particular cruise as it is the home of the Red-crowned Cranes, so she will have to wait for another trip to Japan to add those to her list.

At the end of the cruise, Bob and Marcia spent 5 days in and around Shanghai enjoying a taste of the history and contrasting modernity of Shanghai, the gardens and water town in nearby Suzhou, and parks and temples of the Garden City of Hangzhou. Marcia picked up 5 lifers in China, Red-billed Starling, Mugimaki

Flycatcher, Yellow-billed Grosbeak, Red-flanked Bluetail, and Chinese Blackbird. *Marcia Balestri*

WASHINGTON COUNTY

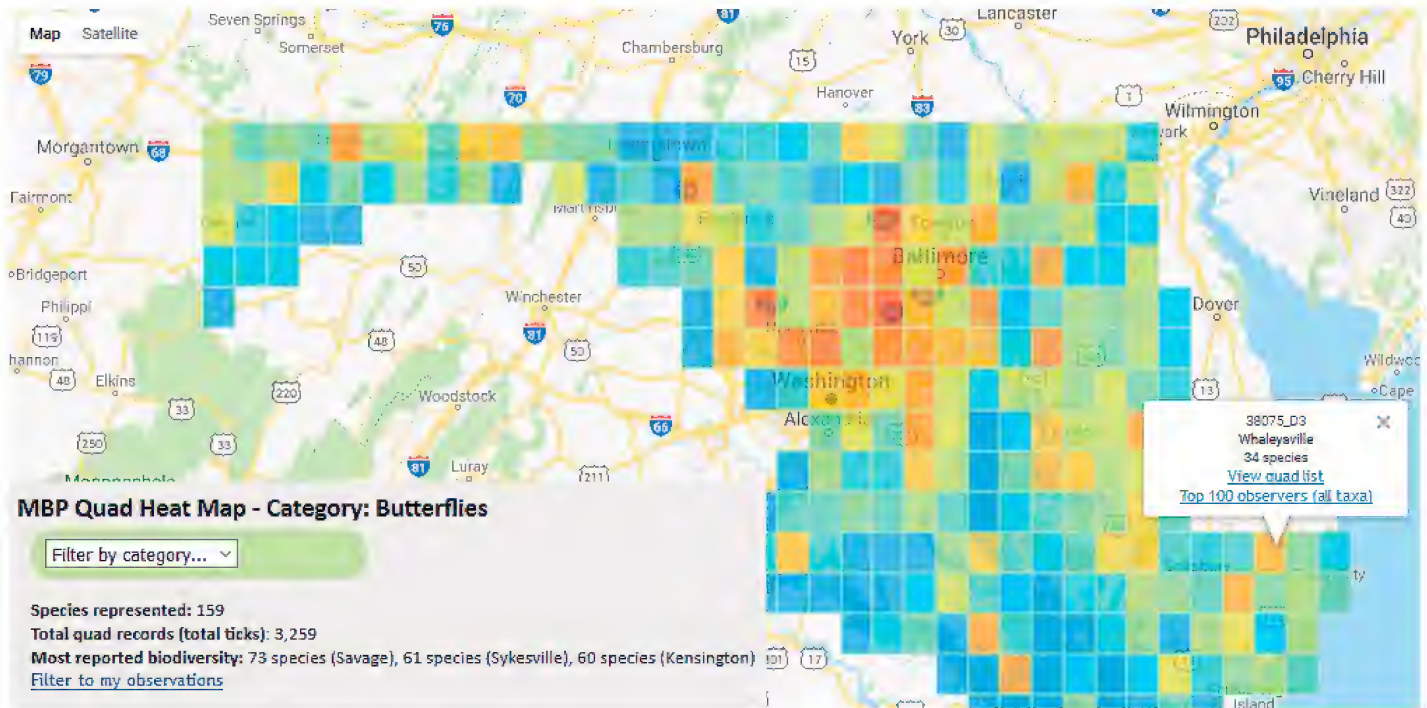
September 25, 2018, the Washington County Bird Club had several interesting visitors including a five-year old Red-tailed Hawk, a 13-year old Screech Owl, a 14-year old Harris's Hawk, and an 18-year old Great Horned Owl along with their friends — a Barred Owl and a Barn Owl. They came to teach us about their intelligence, their speed, their stealth, and other strengths. How did they get there? They were brought by Jason Caldwell from Raptors Up Close, an organization dedicated to educating the public by illustrating the many aspects of raptors, the different species, biology, predation of prey, the ancient art of falconry, and raptors' relationship with man in the past as well as the present (raptorsupclose.com). Jason has been working with birds of prey for 27 years, following in his father's footsteps with a love of nature and raptors. His passion now is educating others about birds and taking care of those birds entrusted to him through injury. Some fun facts Jason passed along to the audience: the Great Horned Owl is increasing in number, as a dark-eyed owl is a midnight hunter, and with no sense of smell its favorite meal is skunk; the life span for Barn Owls in the wild is only two years, they like farm fields, not the woods, and if you want to attract them with boxes, build near some conifers no higher than 12 feet and facing South; the Barred Owl is the most common in our area, is the most vocal, and prefers wetland areas. Seeing all of these species up close and personal was, well, an *enraptured* experience! It was particularly appreciated by another guest in the audience that night, Mario Cordoba, a National Geographic Award Winning tour guide for Costa Rica. *Linda Field*



Jason Caldwell of Raptors Up Close listens to an audience question with an intense look but not as intense as the the Great Horned Owl he is holding. Photo by Bruce Field



On November 13, 2018, Bill Hubick and Jim Brighton, founders of the Maryland Biodiversity Project were recognized by the Maryland Wildlife Advisory Commission as Conservationist of the Year. The Maryland Biodiversity Project, also known as MBP, was started in 2012. Since then, the project has documented 18,000 species. *The Maryland Yellowthroat* is honored to have the founders of MBP as regular contributors and congratulate them on their award. Read the full story at: <https://bit.ly/2rfwzxO>



Upgrading Your Maryland Biodiversity Project Skills

Maryland Biodiversity Project (MBP) is the first-ever perpetual atlas of a state's biodiversity. Since we last contributed here, the project reached a major milestone of 18,000 taxa cataloged in Maryland. The project features photos of more than 10,000 of those species taken by more than 1,000 contributors. It's a very exciting community science effort in which you can contribute to very directly. Despite the impressive species total, new species are added on a weekly basis and we are constantly expanding the known ranges for species. We collaborate closely with organizations like Maryland DNR, Patuxent Research Refuge, the Smithsonian Institution, and the National Aquarium.

This month we thought we'd show you more about what you can do with MBP!

First, you can use it as a powerful reference. The site is at <https://www.marylandbiodiversity.com/>. You can search for any species in the top-right and find species by common name, scientific name, tons of synonyms, and even bird banding codes and Hodges numbers for moths. For example, you can find Prothonotary Warbler by that name, *Protonotaria citrea*, Golden Swamp Warbler, or PROW.

Your photos can be shared via our MBP Flickr queue at: <https://www.flickr.com/groups/marylandbiodiversityproject/pool/>. Keep

in mind we want photos from across the state and from every USGS quad. These are the same quads used by the Breeding Bird Atlas and MARA. Be sure to provide granular locations to include the park or road name and USGS quad. You can use the website to look up locations on a quad map at Explore > Maryland Quad Map (<https://www.marylandbiodiversity.com/quadMap.php>).

Speaking of quad maps, you can click "Drill to Quad Map" for any species and see a much more granular map of sightings. These have built-in "heat" or "density" coloration, so areas with more records show darker on the map. Keep in mind that MBP has not ingested all eBird data yet, so non-bird maps tend to be richer than bird maps. Because Maryland is so eBird-friendly, we have been focusing on creating and ingesting non-bird data sets first.

To find where we have the most extensive data, check out Explore > Maryland Quad Heat Map to see a summary of data and a heat/density map. You can then filter by categories like Birds, Beetles, Butterflies, Fish, Moths, Plants, and Spiders to pinpoint locations. You can use this information to plan a trip to where we're most in need of new data or "adopt" your home quad and try to add new species records there.

As of November 2018, editor feedback in the MBP Flickr queue will automatically let you know if your record is new for the project, the county, the quad, and/or the month!

MEMBER PHOTOS



Art Exhibition featuring Daily Bald Eagles Watercolor Opens in late December at Greenbelt Arts Center Gallery

Solo exhibition by Ikumi Kayama opens in late December at the Greenbelt Arts Center, Greenbelt, MD. The Greenbelt Arts Center is located in the historic Roosevelt Center in the Historic District of Greenbelt, Maryland. The exhibition features 64 watercolor paintings showcasing the Bald Eagle family at the National Arboretum in spring of 2016. The show will be on display until late January.

The exhibit reception is scheduled for Saturday January 5, 2019 from 1pm-4pm at the Greenbelt Arts Center, 123 Centerway, Greenbelt, MD 20770 (ground floor of the Greenbelt Co-op).

More information can be found at <https://studiokayama.com/events/>



Yellow-billed Magpie by Cheryl Hogue (upper left) see page 13 for details.

Calliope Hummingbird by Kurt Schwarz (upper right) Anne Arundel County November 16, 2018.

Southern Cassowary by Jean Kirkwood (left) see page 13 for details.

Any member is welcome to contribute articles, photos, or ideas that would be of interest to other birders. Do you have a perspective that you would like to share with the birding community? We would like to hear from you — even if you are apprehensive about submitting, please contact the Editor and we can guide you through the process:

yellowthroat@mdbirds.org.

...continued from page 16.

If you have fun contributing, we have “Top 100” stats to generate even more motivation. Go to Explore > Top 100 Contributors by Species and then filter by county or quad. We have had many contributors become extra motivated once they realize they are the top contributor for the quad they cover. It’s super fun and addictive! And we particularly love it when contributors target those “cold” quads with the fewest species. There are areas where you can become our #1 contributor in a single outing!

The more you explore, the more you’ll find. For example, we have “tags” for species that tell you things like “Non-native, Invasive, Endangered (MD), Extirpated, S3 (Watch list),” and many more. When you click that link, it shows you a checklist of all species with that tag. For fun, search for “Black Swan” in the top-right and then click the “Exotic” tag. See all the species like American Alligator, European Goldfinch, Pied Crow, and Yellow-fronted Canary that we track but don’t show in default checklists (i.e., not established).

Keep in mind that almost anywhere on the site, you can click the camera icon and see all topic-related photos. For example, if you search for “Bees” in the top-right, you can select “Category: Bees,” then click the camera icon and be blown away by the amazing

macro photos of the state’s bees! Thanks to Sam Droege and USGS PWRC for sharing this work with us, which has been featured by National Geographic!

As of this fall, this feature is available on any species page. Many common species may only show 10 photos by default, but now you can easily see all our photos with a click of the camera icon. And you can easily see your own photos, ensure that IDs of tough species pairs are correct, and enjoy more photos of your favorite species. For fun, do this on the Human page!

We also recently added the Record Details feature. In the caption of most photos, look for the “page with magnifying glass” icon. This lets you drill into the record details, which tell you the quad, how many records we have for state/county/quad, and more. This is the ideal URL to email us when you have questions or find a mistake. (Much simpler than “It’s the 11th photo from the top!”)

Thank you for your support. Together we are contributing directly to science, conservation, and nature education!

Bill Hubick, Maryland Biodiversity Project

<http://www.marylandbiodiversity.com>

<http://www.facebook.com/MarylandBiodiversity>

Books

The Maryland Amphibian and Reptile Atlas

Hardcover

312 pages

ISBN: 9781421425955

November 2018

Johns Hopkins University Press

\$74.95

Naturalists, herpetologists, and ecologists alike agree that tracking herpetofauna is a challenging undertaking. Scientists are concerned about the decline of once-familiar species, but evidence has often been too anecdotal to support firm conclusions. To better understand the distribution of amphibians and reptiles in Maryland and forecast species’ futures in a time of accelerated environmental threats, conducting a comprehensive statewide survey updating 1970s-era distribution maps seemed ideal. However, this endeavor was of an impossibly ambitious scope for scientists alone to tackle. Enter the Maryland Amphibian and Reptile Atlas project, comprising nearly a thousand dedicated citizen scientists who discovered and recorded the locations of herpetofauna throughout every corner of Maryland.

In *The Maryland Amphibian and Reptile Atlas*, Heather R. Cunningham and Nathan H. Nazdrowicz present the findings of this massive undertaking. This definitive guide combines nearly 160 comprehensive new herpetological maps with historical distribution maps and in-depth species accounts. Color photos illustrate the natural history of the 89 species of

frogs, salamanders, turtles, snakes, and lizards that call the state home. Essays discuss historical studies, the effects of Maryland’s current climate, geology, and habitat diversity—and the myriad conservation issues these animals face.

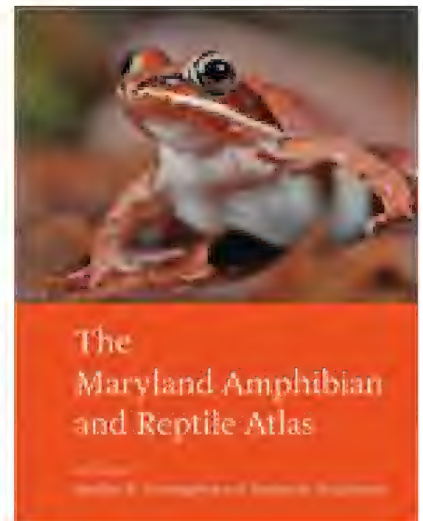
This richly detailed book represents a triumph of citizen science and the culmination of an intensive research partnership. It will appeal to both amateurs

and professionals interested in herpetology, natural history, or ecology, as well as those with a special interest in Maryland’s biodiversity.

Heather R. Cunningham is an associate professor of biology at Chesapeake College. Nathan H. Nazdrowicz is an adjunct instructor of herpetology at the University of Delaware.

Eugene J. Scarpulla, Editor

The Maryland Entomologist, Maryland Birdlife



**Maryland Ornithological Society
Membership Registration Form**

The MOS membership year begins September 1

Join one of our 15 state chapters via mdbirds.org/join/chapters/ or send in this form to become a member-at-large.

Name _____

Address _____

Email Address _____

Home Phone () _____ - _____

Work Phone () _____ - _____

Dues category (Check One)

Individual \$20__ Household \$25__ Junior \$5__ Sustaining \$50__ Life \$1,000__

Amount enclosed \$ _____

Please indicate if you would like to receive the MOS bi-monthly publication *The Maryland Yellowthroat* via mail or view from the MOS website.

I would like to receive *The Maryland Yellowthroat* via mail: **YES / NO**

Please make your check payable to the **Maryland Ornithological Society**, or **MOS**, and mail it with this completed form to the address below. Thank you for joining MOS! Check the calendar for a birding event near you!

**MOS Treasurer
Maryland Ornithological Society
PO Box 105, Monrovia, MD 21770-0105**

The benefits received from Maryland Ornithological Society (MOS) membership dues are not considered to be substantial, as determined by criteria in IRS Publication 526. Therefore, members can claim a tax deductible charitable contribution for the full amount of their membership dues. MOS does not release membership lists to any other organization. MOS only uses it for communication with its members.

**MOS is an organization that relies on members to volunteer their time
and energy. There are several open positions available.**

Treasurer

This is a vital position that must be filled by September 2019. MOS cannot function without a treasurer. Anyone who might be interested should contact Dave Webb.

Scholarship Committee Chair

Anna Urciolo has run the scholarships program with charm and diligence. She now wants to hand over this position to a successor. Anna will be happy to explain what is involved in this position to anyone who is interested.

Breeding Bird Atlas

We are planning for the next Breeding Bird Atlas, beginning in 2020 and ending in 2024. A committee is being formed, but we need more members, including a chair. Please contact Robin Todd if you are interested. No experience necessary!

Bylaws Committee Chair

We are in need of a chair for the Bylaws Committee. Please contact Robin Todd with questions.

CALENDAR

BIRD COUNTS

1/1/19	CBC: Bowie	Host: Compiler David Mozurkewich, 301-509-2212, mozurk@verizon.net Description: Volunteers are needed to census birds in a 15-mile diameter circle in the vicinity of Bowie. Choose your own start and stop times, then come to a tally rally at the end of the day to share your data and socialize.
1/5/19	CBC: Calmes Neck, VA	Host: Compiler Margaret Wester, margaretwester@hotmail.com. The center point of this count circle is the route 7 bridge over the Shenandoah River. It includes part of Clarke and Loudoun counties in VA and a bit of WV.
1/5/19	CBC: Inwood, WV	Host: Please contact Bob Dean for additional info or to volunteer at dean8189@gmail.com or 304-671-4995
1/5/19	CBC: Lancaster, PA	Host: Contact Roger Stoner, 717-393-9030
1/5/19	Midwinter Bird Count: Audrey Carroll	Host: Compiler David Smith, 410-549-7082 Description: Meet at the Sanctuary at 6:30 AM, and be prepared to visit all parts of the sanctuary's 129 acres. You may want your waterproof boots.
1/12/19	Youth Christmas Count	Host: Harford Bird Club Contact Mary, murraymary@gmail.com or 410-812-6621, or Rachel, harfordbirdclubedu@gmail.com or 443-299-8384, for details. Description: Young birders between the ages of 4 and 16, join Rachel Hebert Ortt, Mary Murray and the Harford Youth Bird Club at Swan Harbor Farm Park. Registration required. Count is 9 - 11:30 AM.
1/13/19	Midwinter Bird Count: Fred Archibald Audubon Sanctuary	Host: Compiler David Smith, 410-549-7082 Description: Meet at the Sanctuary at 6:30 AM, and be prepared to visit all parts of the sanctuary's 129 acres. You may want your waterproof boots.
1/19/19	Midwinter Bird Count: Carroll County	Host: Carroll County Bird Club Contact Don Jewell to verify your bird counting area, jewelldg@gmail.com or 410-259-4716 Description: Parties of counters will set their own schedules in their pre-arranged areas to count winter bird species throughout the County. The Tally Rally will be hosted by Amy Hoffman at her home. If you will be attending the Tally, please RSVP to Amy (410-549-3598) no later than Wednesday, January 16 and plan on bringing a food item or cash donation (\$5).
1/26/19	Midwinter Bird Count: Frederick County	Host: Compiler David Smith, 410-549-7082 Description: This is the last, but not the least, of our winter counts! The reward afterwards is the enjoyable tally-rally at David and Carol's house.
1/26/19	Midwinter Bird Count: C&O Canal	Host: Contact Jim Speicher, jugornought@gmail.com, for detailed information Description: Count dates for 2019 are 1/26/19 thru 2/3/19. 184.5 total miles of birding are potentially available.
1/27/19	Winter Bird Count: Kent County	Host: Kent County Bird Club. Please contact Walter Ellison or Nancy Martin, 410-778-9568 or borealdee@gmail.com, for more information. Description: Join the field crew or count in your neighborhood, anywhere in Kent County.

Any MOS Member may contribute to *The Maryland Yellowthroat*. Please mail submissions to the Editor by January 28 for the March/April 2018 Issue.

For more details about an event listed in the MOS Calendar, please visit: <https://mdbirds.org/calendar/>.



BIRDING



1/1/19	8:30 AM – 12 PM	Birding Perryman Area	Host: Harford Bird Club Leader Phil Powers, birdsinmd308@gmail.com or 410-569-8319 Description: Celebrate the New Year and/or recover from New Year's Eve by birding the Perryman Area. Meet at the Aberdeen Walmart parking lot in the corner farthest from Rt 40.
1/1/19	8 AM – 12 PM	Start Your Year List	Host: Howard Bird Club Leader Kurt Schwarz, krschwa1@verizon.net or 410-461-1643 Description: Easy walking on woodland trails. Plan to carpool to different locations to find as many species as possible. The one day of the year where every bird is new! Facilities available. Meet at the Howard Conservancy – Mount Pleasant Farm.
1/1/19	8 AM – 12 PM	Earliest Bird Walk – Georgetown Reservoir and DC/MD Hotspots	Host: Montgomery Bird Club Leader Mike Bowen, 301-530-5764 or dhmbowen@yahoo.com. Description: Start the New Year right. Meet at Georgetown Reservoir, DC, by the gate leading to the dike between the pools. Itinerary will be different this year due to new parking restrictions along the route. Reservations required. Strict limit 20 participants who absolutely must be prepared to carpool.
1/1/19	8:30 AM – 12 PM	Birding at North Point SP	Host: Baltimore Bird Club Leader Kevin Graff, keyweststyle2001@gmail.com. Description: Start the New Year birding. Varied habitats including marsh, woods and beach. Expect waterfowl, sparrows and raptors. Scopes useful. Entrance fee \$3 unless you have pass.
1/2/19	8 AM – 12 PM	Birding at Fort HcHenry	Host: Baltimore Bird Club Leader Mary Chatelat, 410-665-0769 Description: One of a series of morning surveys of bird activity at the Fort and wetland. Telescopes useful. Canceled in inclement weather. Park outside the main entrance gate, in lot on left, and meet at the gate.
1/3/19	3 – 5 PM	Bird Walk at Lake Artemesia	Host: Patuxent Bird Club/PGAS Contact David Mozurkewich, mozurk@bellAtlantic.net, for more information. Description: Semi-monthly walk. Wheelchair-accessible. Meet at parking lot, at intersection of Berwyn Rd. and Ballew Ave. in Berwyn Heights. No reservations needed.
1/5/19	8 AM – 12 PM	Birding at Perryville Community Park	Host: Cecil Bird Club Leader Ken Drier, kdrier@zoominternet.net Description: One of Cecil County's prime duck viewing locations. A half-day of seeking out winter waterfowl at Perryville Community Park, and along the Susquehanna River. Dress for extreme cold and wind. Bring scope if you have one. A mix of driving and some walking. Meet at the North East Community Park (at the end of Walnut St).
1/5/19	8 AM – 12 PM	Field Trip to Eastern Neck NWR	Host: Kent County Bird Club If you have questions, please contact the trip leaders. Walter Ellison and Nancy Martin, 410-778-9568 or borealdee@gmail.com Description: Kick off your birding year with a half-day search for birds. Joint trip with Friends of Eastern Neck, you must pre-register at http://bit.ly/2vWPDBt . Space is limited, sign up early. Meet at the "Dollar General" parking lot (off Philosopher's Terrace) in Chestertown
1/5/19	7:30 AM – 12 PM	Bird Walk at Fran Uhler	Host: Patuxent Bird Club/PGAS Contact Bill Sefton, kiwisuits@msn.com Description: Monthly walk. Meet at E end of Lemon's Bridge Rd, off Rt 197 just N of Bowie State U. No reservations needed.
1/6/19	7:30 – 10:30 AM	Birding at Kinder Farm Park	Host: Anne Arundel Bird Club Contact Alan Young, 410-991-8300 or alnmyoung@aol.com Description: Join us for the monthly walk along paved paths as well as grass and dirt paths through varied habitat. Meet at top parking lot past the sports fields
1/6/19	8 AM – 12 PM	Birding at Loch Raven Point and Dam	Host: Baltimore Bird Club Leaders Debbie Terry, 443-578-8243 or dterry12@verizon.net, and Nancy O'Hara, 443-286-0922 or noh529@gmail.com. Description: Morning trip to see water birds. Meet at Loch Raven Point (public area on Loch Raven Drive, just west of Bridge #1). Our second stop will be Loch Raven Dam. Scopes useful. Trip canceled in snow, rain, or slippery conditions. RSVP required in case trip is canceled.
1/6/19	All day	Coastal Birding Trip	Host: Tri-county Bird Club For more information contact trip leader Mike Walsh, 410-422-0428 or mik.walsh@comcast.net Description: Coastal birding trip from Ocean City, MD to Cape Henlopen, DE for winter birds. Meet at the Ward Museum parking lot at 7:30 AM or the OC inlet parking lot at 8:30 AM. Bring lunch, snacks and drinks.



Questions? Contact the calendar editor: calendar@mdbirds.org



1/11-13/19	All day	Ocean City and Environs	Host: Montgomery Bird Club For reservations and information contact leader Stephanie Lovell, amorellovel@gmail.com or 240-242-3325. Cheryl Hogue will co-lead. Description: Explore winter birding on the Eastern Shore! We'll cross the Bay Bridge and check out locations from Kent Island to Assateague, stopping at Blackwater NWR and points in between. We'll overnight in Ocean City on Friday and Saturday. Trip is limited to 10. Please consider car-pooling. If a Nor'easter comes howling down, we won't go.
1/12/19	All day	Trip to Ocean City and Beyond	Host: Cecil Bird Club Leader Sean "Bird Dog" McCandless, seanmccandless1@gmail.com or 410-996-5267. Description: A classic trip to THE prime Maryland winter birding hotspot. The Ocean City inlet. There could be some lingering shorebirds, maybe a Brant. Area ponds might host waterfowl. Opportunities for wintering sparrows. Bring breakfast, lunch and snack, or money to buy take-out food on the way. Dress for extreme cold and wind. Bring scope if you have one. Easy walking on level ground. Meet near Dunkin' Donuts in Big Elk Mall, intersection of Rt 40 & Rt 213 in Elkton at 6 AM.
1/12/19	All day	Trip to Blackwater NWR	Host: Howard Bird Club Leader Kurt Schwarz, krschwa1@verizon.net or 410-461-1643 Description: Plan to stop at the Choptank River Bridge for ducks and coffee. Bring lunch and drinks. Dress warmly. Entrance fee, Duck Stamp, or national parks pass required. Email the leader to reserve a spot and get details. Reservations required. We will carpool. Facilities at some spots.
1/12/19	8 AM – 12 PM	Birding at Bladensburg Waterfront Park and Anacostia River Trail.	Host: Patuxent Bird Club/PGAS For more information, contact leader Ross Geredien at goodmigrations@yahoo.com . Description: The park and trail offer excellent habitat for wintering birds. We will also visit the newly opened Anacostia River Trail. The same site that hosted a Harris's Sparrow last winter. Drive in through the gate and go all the way to the farthest parking area, near the office building and kayak launch site.
1/13/19	8 – 11 AM	Birding at Quiet Waters Park	Host: Anne Arundel Bird Club Contact Dotty Doherty, 443-926-3054 or dottycholcombdoherly@gmail.com Description: Situated between the South River and Harness Creek, birders will enjoy trails winding through forests and past grassy fields on a paved path. \$6 charge if you don't have a county park sticker. Meet in the parking lot by the Blue Heron Room.
1/13/19	9 AM – 12 PM	Birding at Marshy Point Nature Center	Host: Baltimore Bird Club Leaders Brent and Mary Byers, 410-626-7294 or baypuffin@hotmail.com . Description: Winter waterfowl, raptors, passerines. Half-mile trail leads to point overlooking Dundee Creek. Recommended for young birders and their parents. Boots advisable, telescopes useful.
1/16/19	7:30 AM – 12 PM	Birding at Sandy Point State Park and Thomas Point	Host: Anne Arundel Bird Club Contact Sam Miller, 443-306-3392 or srmiller2022@gmail.com Description: Join us for a morning along the coast line looking for water fowl! Dress warmly as it is always colder by the bay! Meet at Bay 50 at 7:30 AM.
1/17/19	3 – 5 PM	Bird Walk at Lake Artemesia	Host: Patuxent Bird Club/PGAS Contact David Mozurkewich, mozurk@bellAtlantic.net , for more information. Description: Semi-monthly walk. Wheelchair-accessible. Meet at parking lot at intersection of Berwyn Rd and Ballew Ave in Berwyn Heights. No reservations needed.
1/19/19	8 AM – 12 PM	Saturday Morning Monitoring Walk at Fort McHenry	Host: Baltimore Bird Club Leader Ben Poscover, 410-882-1309. Description: Continuing survey of bird activity at the Fort. Telescopes useful. Canceled in bad weather. Park outside the main entrance gate in lot on left and meet at the gate.
1/19/19	9 AM – 5 PM	Conowingo Eagle Watch	Host: Harford Bird Club The leader is Dave Webb, porzana@comcast.net or 410-939-3537. Description: Bring your bins and/or scope for great views of our majestic national bird. Photographers, this is also a great opportunity for not only excellent shots of the likely numerous eagles but also gulls and waterfowl.
1/19/19	TBD	Birding at Alpha Ridge Landfill	Host: Howard Bird Club Contact Joe Hanfman for reservations, meeting time and location at auk1844@gmail.com or 410-772-8424. Description: This is a half-day trip. Moderate walking over hills and fields of the landfill. We will search for Short-eared Owls with no guarantee of finding one. No facilities on the landfill. Reservations required. Carpooling is required. Limited to a maximum of five cars.

1/19/19	7:30 AM – 12 PM	Bird Walk at Governor Bridge	Host: Patuxent Bird Club/PGAS For more information contact Bill Sefton, kiwisuits@msn.com. Description: Monthly walk. Meet at the parking lot on the S side of Governor Bridge Rd, 1 mile E of Rt 301. No reservations needed.
1/19/19	8 – 9:30 AM	Birding at Druid Hill Park	Host: Baltimore Bird Club, Audubon and Maryland Zoo. To borrow binoculars, contact Patterson Park Audubon Center at 410-558-2473 or baltimore@audubon.com. Description: Join Audubon and the Maryland Zoo to explore this leafy city park! From forest to lake, a variety of bird species await. Meet at 3001 East Drive to start the walk.
1/19/19	9 – 11 AM	Audrey Carroll Sanctuary	Host: Audubon Society of Central MD For more information contact Crystal Kunst, hckunst@qis.net or 443-536-3071. Description: Bi-monthly naturalist-led walk.
1/19/19	8 AM – 5 PM	Field Trip to Ocean City	Host: Kent County Bird Club If you have questions, please contact the trip leaders. Walter Ellison and Nancy Martin, 410-778-9568 or borealde@baltimore.com Description: Our annual search for winter specialties including gannet, sea ducks, alcids, gulls, Purple Sandpipers, and wintering songbirds. Full day. Dress warmly, bring lunch and warm beverages. Meet at the “Dollar General” parking lot (off Philosopher’s Terrace) in Chestertown.
1/26/19	7:45 AM – 12 PM	Birding at Thomas Point and Annapolis Neck	Host: Anne Arundel Bird Club Contact: Judy Brennan, 410-991-2412 or el.judith@gmail.com Description: We will carpool to Hillsmere first to check along the South River front for water birds. From there to Thomas Point Park and then the neighborhoods of Arundel on the Bay and Oyster Harbor. Continuing from there to the Chesapeake Bay Foundation to walk the short trail back into Black Walnut Cove. From there back around the entire Bay Ridge peninsula for great views of the Bay, the Chesapeake Bay Bridge and Severn River. Meet at Giant Shopping Center on Bay Ridge Rd near Wells Fargo Bank on the side by Georgetown Rd at 7:45 AM
1/26/19	8 – 9:30 AM	Birding at Patterson Park	Host: Baltimore Bird Club and Audubon. For directions or to borrow binoculars, contact Patterson Park Audubon Center at 410-558-2473 or baltimore@audubon.org. Description: Join Audubon to explore this urban oasis in Southeast Baltimore. With more than 205 species on record, the park is full of surprises. Meet at the fountain, near intersection of East Lombard St and Patterson Park Ave
1/26/19	9 AM – 12 PM	Bird Walk at Perryville Community Park, Stump Point.	Host: Harford Bird Club The leaders are Colleen Webster, cwebster@harford.edu or 410-459-4577, and Sue Procell, procellmd@gmail.com or 443-417-4919. Description: This is a leisurely birding excursion on largely paved surfaces to look for swans and winter ducks. Meet at the far end of the park.
2/2/19	All day	Birding at Blackwater NWR	Host: Baltimore Bird Club Leader Joe Corcoran, corcoran2921@gmail.com or 667-231-6453. Description: All day trip to see ducks, thousands of geese, Bald Eagles, and Brown-headed Nuthatches. White Pelicans possible. Rough-legged Hawk and Short-eared Owl possible in the late afternoon. Possible other stops along the way. Bring lunch. Meet at 7 AM at Nursery Rd/Hammonds Ferry Rd P&R for car-pooling.
2/2/19	8 AM – 12 PM	Birding at Black Hills Regional Park	Host: Carroll County Bird Club Contact leader Bob Ringler at 410-303-2792. Description: Join Bob Ringler to scope out the waterfowl at Black Hills. Meet at the P&R on Rt 32 just S of Rt 26 in Eldersburg.
2/2/19	8 AM – 12 PM	Bradenbaugh Soup Tour	Host: Harford Bird Club Contact Dennis at newarkfarms@gmail.com or 410-692-5905 Description: Trip begins at Jarrettsville Elementary School parking lot. From there Dennis Kirkwood leads us on a pleasant tour through NW Harford County’s agricultural area to find wintering field birds and waterfowl. The trip ends at the leader’s house where you will enjoy hot soup, homemade breads, good conversation and maybe even a brief glimpse of the resident screech owl.
2/2/19	7:30 AM – 12 PM	Bird Walk at Fran Uhler	Host: Patuxent Bird Club/PGAS Contact Bill Sefton, kiwisuits@msn.com Description: Monthly walk. Meet at E end of Lemon’s Bridge Rd, off Rt 197 just N of Bowie State U. No reservations needed.



For more details about an event listed in the MOS Calendar, please visit: <https://mdbirds.org/calendar/>.

MEMBER PHOTOS



Northern Saw-whet Owl by Kristin Gressitt (top), Baltimore County.

Snow Bunting by Lilian Cerderia (right), Baltimore County.

Red-breasted Nuthatch by Gene Ricks (below), Baltimore County.



MEMBER PHOTOS



Common Redpolls made a brief appearance at Steven Centofanti's feeders in Westminster. The birds arrived on November 11 and only stayed long enough for photos (top).



Pine Siskin by Lilian Cerdeira, photographed in Montgomery County.



Purple Finch by Gene Ricks, Batlimore County.

Submit your photo to *The Yellowthroat*. Visit <https://mdbirds.org/publications/the-yellowthroat/> for submission guidelines.

Questions? Contact the calendar editor: calendar@mdbirds.org

2/3/19	7:30 – 10 AM	Birding at Kinder Farm Park	Host: Anne Arundel Bird Club Contact: Linda Vitchock, 443-557-8233 or lindabvit@hotmail.com Description: Join us for the monthly walk along paved paths as well as grass and dirt paths through varied habitat. We will be looking for Fox Sparrows and other winter residents. Meet at top parking lot past the sports fields.
2/3/19	7:30 AM – 12 PM	Birding Dorchester County	Host: Tri-county Bird Club For more information, contact trip leaders Ellen Lawler, 410-982-8695 or emlawler534@comcast.net, or Mary Huebner, 301-876-7545 or marybrd22@gmail.com. Description: Dorchester County, including Choptank River and Blackwater NWR, for waterfowl, raptors, other winter residents. Meet at the Royal Farms on Rt 50 W of Salisbury. Bring lunch and snacks.
2/7/19	8 AM – 12 PM	Birding at Fort HcHenry	Host: Baltimore Bird Club Leader Mary Chatelat, 410-665-0769 Description: One of a series of morning surveys of bird activity at the Fort and wetland. Telescopes useful. Canceled in inclement weather. Park outside the main entrance gate, in lot on left, and meet at the gate.
2/7/19	3 – 5 PM	Bird Walk at Lake Artemesia	Host: Patuxent Bird Club/PGAS Contact David Mozurkewich, mozurk@bellAtlantic.net, for more information. Description: Semi-monthly walk. Wheelchair-accessible. Meet at parking lot at intersection of Berwyn Rd and Ballew Ave in Berwyn Heights. No reservations needed.
2/8/19	8 – 11 AM	Birding at Lake Elkhorn	Host: Howard Bird Club Leader Allen Lewis, allenrlewis@gmail.com Description: Easy walking along the lake and to Forbay Pond. Waterfowl, sparrows and winter finches are possible. The lake can turn up interesting surprises. Handicap accessible. No facilities. Meet at Dockside Parking lot.
2/10/19	8 – 11 AM	Birding at Quiet Waters Park	Host: Anne Arundel Bird Club Contact Barbara Johnson, 410-703-4664 or barbarajohnson222@gmail.com Description: Situated between the South River and Harness Creek, birders will enjoy trails winding through forests and past grassy fields on a paved path. \$6 charge if you don't have a county park sticker. Meet in the parking lot by the Blue Heron Room.
2/10/19	9 AM – 12 PM	Birding at Marshy Point Nature Center	Host: Baltimore Bird Club Leaders Brent and Mary Byers, 410-626-7294 or baypuffin@hotmail.com. Description: Winter waterfowl, raptors, passerines. Half-mile trail leads to point overlooking Dundee Creek. Recommended for young birders and their parents. Boots advisable, telescopes useful.
2/10/19	8 – 11 AM	Birding at Blandair Park North	Host: Howard Bird Club Leader Anthony VanSchoor, tonyvanschoor@gmail.com Description: Walk trails along scrubland and woods. Sometimes non-winter birds overwinter here. No facilities, boots recommended. Meet at the south end of Summer Hollow Ln.
2/16/19	8 AM – 12 PM	Saturday Morning Monitoring Walk at Fort McHenry	Host: Baltimore Bird Club Leader Ben Poscover, 410-882-1309. Description: Continuing survey of bird activity at the Fort. Telescopes useful. Canceled in bad weather. Park outside the main entrance gate in lot on left and meet at the gate.
2/16/19	8 – 9:30 AM	Birding at Druid Hill Park	Host: Baltimore Bird Club, Audubon and Maryland Zoo. To borrow binoculars, contact Patterson Park Audubon Center at 410-558-2473 or baltimore@audubon.com. Description: Join Audubon and the Maryland Zoo to explore this leafy city park! From forest to lake, a variety of bird species await. Meet at 3001 East Drive to start the walk.
2/16-18/19	All day	Ocean City Trip	Host: Baltimore Bird Club Contact Nancy O'Hara, noh529@gmail.com, 443-286-0922 for RSVP and questions. Contact Hyatt Place directly 410-213-5333 or 800-591-1234 for special discounted rates before January 28. Make sure to mention you are with the Baltimore Bird Club. Leader Kevin Graff, keyweststyle2001@gmail.com. Description: Henlopen to Ocean City coastal weekend. Birding south from Cape Henlopen, DE to Ocean City, MD with stops along the way. Bring 'scopes if you have them and bundle up. Details will be supplied closer to the trip. RSVP required.

For more details about an event listed in the MOS Calendar, please visit: <https://mdbirds.org/calendar/>.

2/16-18/19	All day	Winter Weekend at the Beach	Host: Carroll County Bird Club Bob Ringler will be leading this trip. Contact him at 410-303-2792 if you plan on attending. Description: A great opportunity to freeze your bins off and see a lot of really great birds. Meet at the Bombay Hook Visitor's Center at 10 AM on Saturday. Based on where the reports are coming in from, the group will work up and down the coast for winter waterfowl and other winter residents. Bill Ellis is offering his townhouse in Ocean City as our base of operations. Please contact Bill at 443-520-8809 to inquire about sleeping space there on Saturday and Sunday nights.
2/16/19	9:30 – 11:30 AM	Gulls at North East Community Park	Host: Cecil Bird Club Leader Sean "Bird Dog" McCandless, seanmccandless1@gmail.com or 410-996-5267. Description: Whether you think gulls are gorgeous or hopelessly confusing, do we have a location for you! Join local gull expert Sean McCandless for a session of gull watching and identification. You never know what will show up!
2/16-18/19	All day	Eastern Shore Weekend	Host: Frederick Bird Club Leader Tom Humphrey, 240-793-2508. Description: A casual and fun trip to visit some of the best birding spots on the east coast.
2/16/19	9 – 11 AM	Fred Archibald Sanctuary	Host: Audubon Society of Central MD For more information contact Crystal Kunst, hckunst@qis.net or 443-536-3071. Description: Bi-monthly naturalist-led walk.
2/16/19	All day	Field Trip to Blackwater NWR	Host: Kent County Bird Club If you have questions, please contact the trip leaders. Walter Ellison and Nancy Martin, 410-778-9568 or borealdee@gmail.com Description: Prime waterfowl and eagle country; pelicans and other surprises? Dress warmly & bring lunch. 8 AM. Meet at the "Dollar General" parking lot (off Philosopher's Terrace) in Chestertown
2/16/19	7:30 AM – 12 PM	Bird Walk at Governor Bridge	Host: Patuxent Bird Club/PGAS For more information contact Bill Sefton, kiwisuits@msn.com. Description: Monthly walk. Meet at the parking lot on the S side of Governor Bridge Rd, 1 mile E of Rt 301. No reservations needed.
2/17/19	7 AM – 5 PM	Trip to Indian River Inlet, Lewes, DE	Host: Harford Bird Club Contact the two experienced leaders, Dave Larkin, dlarkin3001@comcast.net or 410-569-8319, and Russ Kovach, russell.kovach@gmail.com, closer to the event for further details. Description: The leaders will guide you to several birding hot spots along the coast of the Delaware River and Bay in search of overwintering and resident species. Meet at the Havre de Grace P&R, I95 and 155.
2/17/19	9 AM – 12 PM	Waterfowl on the Shenandoah	Host: Washington County Bird Club Call Doris Berger at 301-739-8907 or Anna Hutzell at 301-797-8454 to participate. Description: Half-day trip to the Shenandoah River near Harpers Ferry. Depart the MVA lot, 18306 Col. Henry K. Douglas Drive.
2/21/19	3 – 5 PM	Bird Walk at Lake Artemesia	Host: Patuxent Bird Club/PGAS Contact David Mozurkewich, mozurk@bellAtlantic.net, for more information. Description: Semi-monthly walk. Wheelchair-accessible. Meet at parking lot at intersection of Berwyn Rd and Ballew Ave in Berwyn Heights. No reservations needed.
2/22-24/19	All day	Weekend Trip to Ocean City	Host: Patuxent Bird Club/PGAS Contact field trip leaders Marcia Watson and Gene Scarpulla at marshwren50@comcast.net for itinerary, hotel information, and trip reservations. Description: This trip offers the opportunity to see a variety of birds – land and sea – not found in spring and summer, and takes advantage of off-season rates and reduction in crowds and traffic. Pack your woolies and join us. RSVP required.
2/23/19	7 AM – 12 PM	Birding at Swan Harbor Park	Host: Anne Arundel Bird Club Contact Matt Addicks, 442-987-7208 or maddicks13@gmail.com Description: The grounds offer multiple types of habitat including frontage along the Chesapeake Bay, open farm fields, a small freshwater marsh, man-made water impoundments, small wooded lots and a forested stream valley. Over 250 birds have been seen at this site. Meet at Millersville P&R at 7 AM.
2/23/19	8 – 9:30 AM	Birding at Patterson Park	Host: Baltimore Bird Club and Audubon. For directions or to borrow binoculars, contact Patterson Park Audubon Center at 410-558-2473 or baltimore@audubon.org. Description: Join Audubon to explore this urban oasis in Southeast Baltimore. With more than 205 species on record, the park is full of surprises. Meet at the fountain, near intersection of East Lombard St and Patterson Park Ave



For more details about an event listed in the MOS Calendar, please visit: <https://mdbirds.org/calendar/>.

Questions? Contact the calendar editor: calendar@mdbirds.org

2/23/19	8 AM – 12 PM	Field Trip to Fair Hill	Host: Cecil Bird Club Leader Ken Drier, kdrier@zoominternet.net . Description: Fair Hill is one of Cecil County's loveliest birding spots. Portions of the trail may be muddy or icy, so boots are recommended. Dress for extreme cold and wind. Meet at the Foxcatcher Farm Covered Bridge parking lot near the Fair Hill Nature and Environmental Center on Tawes Drive. There is an honor system daily fee (\$3 Maryland residents; \$4 out-of-state visitors). Birders age 62 and older are eligible for a Golden Age Pass.
2/23/19	8 AM – 12 PM	Swan Harbor Farm Park	Host: Harford Bird Club The leader is Mark Johnson, marksjohnson2@gmail.com or 410-692-5978. Description: Visit this Harford County gem with its commanding view of the bay and explore the three impoundments, wooded trails and open fields. Meet at the parking lot at the Agricultural Education Center at the end of the driveway.
2/23/19	9:30 – 11:30 AM	How to Find an Owl	Host: Howard Bird Club Leader Jay Sheppard, jaymsheppard95@gmail.com (preferred) or 301-725-5559 Description: Learn how to find owls by habitat and signs. Jay is an expert at finding owls and will share his skills and knowledge as to how to find different species. Contact Jay to sign up so participants can be advised of weather related changes and where to meet. Group size limited and RSVP required. No facilities.
2/23/19	1 – 3 PM	How to Find an Owl	Host: Howard Bird Club Leader Jay Sheppard, jaymsheppard95@gmail.com (preferred) or 301-725-5559 Description: Learn how to find owls by habitat and signs. Jay is an expert at finding owls and will share his skills and knowledge as to how to find different species. Contact Jay to sign up so participants can be advised of weather related changes and where to meet. Group size limited and RSVP required. No facilities.
2/27/19	7:30 – 10 AM	Birding at Beverly Triton Beach Park	Host: Anne Arundel Bird Club Contact Alan Young, 410-991-8300 or alnymyoung@aol.com Description: There are almost five miles of hiking paths with a variety of habitats, including bay shoreline, large freshwater lake, woods, fields and marshes.
3/2/19	6 – 8 PM	Woodcock Walk at Morgan Run	Host: Carroll County Bird Club Contact Allan McQuarrie at 410-552-1278 if you plan to attend. Description: Come strain your eyes and ears to appreciate these curious birds as they perform their annual courting ritual. They never let us down! Meet at the parking lot at the end of Ben Rose Lane.
3/2/19	7:30 AM – 12 PM	Bird Walk at Fran Uhler	Host: Patuxent Bird Club/PGAS Contact Bill Sefton, kiwisuits@msn.com Description: Monthly walk. Meet at E end of Lemon's Bridge Rd, off Rt 197 just N of Bowie State U. No reservations needed.
3/3/19	9 AM – 12 PM	Birding at Perryville Community Park	Host: Cecil Bird Club Trip leaders Ken Drier, kdrier@zoominternet.net , and Maryann Dolan, maryanne.dolan@gmail.com Description: Seek out lingering winter waterfowl at Perryville Community Park, and along the Susquehanna River. Dress for extreme cold and wind. Bring scope if you have one. A mix of driving and some walking. Meet at the parking lot to the left across from the Pavilion just before the road splits entering Perryville Park.
3/3/19	8 – 11 AM	Birding at Centennial Park	Host: Howard Bird Club Leaders Richard and Renee Peters, richard@rrrrrpeters.org Description: Easy walking around the lake on paved path. Waterfowl expected early migrant passerines possible. Facilities available. Handicap accessible. Meet at W end parking lot.
3/3/19	8 AM – 12 PM	Field Trip to Chesapeake Farms.	Host: Kent County Bird Club If you have questions, please contact the trip leaders. Walter Ellison and Nancy Martin, 410-778-9568 or borealdee@gmail.com Description: Wintering waterfowl, raptors (notably eagles), White-crowned and other sparrows. Bring snacks. Meet at the "Dollar General" parking lot (off Philosopher's Terrace) in Chestertown.

For more details about an event listed in the MOS Calendar, please visit: <https://mdbirds.org/calendar/>.



MEETINGS



1/03/19	7 – 9 PM	Homewood at Crumland Farms	Meeting: Frederick Bird Club	Host: Frederick Bird Club Contact Don Hambright, fbcprez@aol.com Description: Orietta Estrada will talk about her “Big Year”.
1/05/19	7:30 – 9:30 PM		Annual Holiday Party: Carroll County Bird Club	Host: Carroll County Bird Club Sue and Splinter Yingling, hostess/host. Please coordinate with the Yinglings for directions and to bring a dish at syingling@mac.com or 410-857-0902. Description: Talk birds, eat, drink, and have fun with fellow birders.
1/08/19	7 – 9 PM	College Park Airport Operations Bldg, 2nd floor	Meeting: Patuxent Bird Club/PGAS	Host: Patuxent Bird Club/PGAs Description: “Calvert County Owls: Restoring the Barn Owl and the Status of Other Owls”, presented by Andy Brown. Free and open to the public. Doors open at 7 pm for 7:30 pm meeting start time.
1/10/19	7 – 9 PM	Robinson Nature Center	Meeting: Howard Bird Club	Host: Howard Bird Club Info: Mary Lou Clark 410-465-4061. Description: “Butterflies of Howard County, Maryland,” by Linda Hunt and Kevin Heffernan. Linda and Kevin will present results and observations from the five-year Howard County Butterfly Survey, a citizen-science project involving at least 60 participants and documenting almost 100,000 butterflies. Hospitality 7:00 PM; meeting/program 7:30.
1/11/19	6:15 – 9 PM	Churchville Presbyterian Church	Meeting: Harford Bird Club	Host: Harford Bird Club Description: Dr. Mark Johnson will present “Birds of Hawaii.” Social at 6:15. Meeting at 7:15. Presentation at 7:45.
1/13/19	4:30 – 7:30 PM	Vollmer Center at Cylburn	Covered Dish Dinner and Lecture: Baltimore Bird Club	Host: Baltimore Bird Club For information contact coordinator Kevin Graff at keyweststyle2001@gmail.com or call Peter Lev at 410-823-2962. Description: Renowned world birder Peter Kaestner will speak on a topic of his choice. To reserve a place and tell us what you will bring, please use the website PerfectPotluck.com.
1/16/19	7 – 9 PM	Kinder Farm Park	Meeting: Anne Arundel Bird Club	Host: Anne Arundel Bird Club Contact Barbara Johnson, 410-703-4664 or barbarajohnson222@gmail.com Description: “Travels with the Songbird Migration of Spring: North on the Wing” with Dr. Bruce Beehler. In late March 2015, ornithologist Bruce M. Beehler set off on a solo four-month trek to track songbird migration. In this program, Beehler will describe both the epic migration of songbirds across the country and the gradual dawning of springtime through the US. heartland and the stories of the people and institutions dedicated to studying and conserving the critical habitats and processes of spring songbird migration.
1/17/19	7:30 – 9 PM	Caroline County Public Library	Meeting: Caroline County Bird Club	Host: Caroline County Bird Club Description: Ashley Kennedy, University of DE will speak on “What do birds eat?: Biodiversity for Birds.”
1/22/19	6 – 9 PM	Mt. Aetna Nature Center	Meeting and Potluck	Host: Washington County Bird Club Call 301-797-8454 with questions Description: Enjoy a potluck dinner. Bring your own place setting, drink, and a dish to share. Program: film “First Flight”.
1/28/19	7 – 9 PM	MAC Education Center	Meeting: Tri-county Bird Club	Host: Tri-county Bird Club Contact Ellen Lawler at 410-982-8695 or emlawler534@comcast.net for more info. Description: “The Audubon Camp Experience and Worcester County Schools” presented by MOS scholarship winners and Worcester County educators, Brian Phillips and Steve Wehlan.
2/06/19	7 – 9 PM	Carroll Nonprofit Center	Meeting: Carroll County Bird Club	Host: Carroll County Bird Club Contact Don Jewell at jewelldg@gmail.com. Description: “Show and Tell” by Club members. Bring your favorite nature photos to share. Flash drives, CDs, or slides. We will be able to project all formats.



For more details about an event listed in the MOS Calendar, please visit: <https://mdbirds.org/calendar/>.



2/07/19	7 – 9 PM	Homewood at Crumland Farms	Meeting: Frederick Bird Club	Host: Frederick Bird Club Description: Members night. Share your pictures/videos with the club.
2/12/19	7 – 9 PM	Vollmer Center at Cylburn	Board Meeting: Baltimore Bird Club	Host: Baltimore Bird Club Description: While only authorized Board members have a vote, any Club member is welcome to attend and participate in discussions. Call any club officer or board member for details.
2/12/19	7 – 9 PM	College Park Airport Operations Building	Meeting: Patuxent Bird Club/PGAS	Host: Patuxent Bird Club/PGAS Description: “What Marsh Wrens Can Tell us About Evolution: Lessons from Color, Sound and Genes”, presented by Dr. Sarah Luttrell. It’s easy to imagine new species forming in isolated places like remote islands, but what about right in your own backyard? Dr. Luttrell’s work aims to better understand how evolution works by studying subspecies of the Marsh Wren. She will talk about how comparing multiple traits including plumage color, size and shape, vocal behavior, and genetics in Marsh Wrens has revealed an exciting pattern of evolution in this widely distributed coastal marsh bird. Free and open to the public. Doors open at 7 PM for 7:30 PM meeting start time.
2/14/19	7 – 9 PM	Robinson Nature Center	Meeting: Howard Bird Club	Host: Howard Bird Club Info: Mary Lou Clark, 420-465-4061. Description: “Birds of the Meadows, Fields and Marshes,” by Bonnie Ott. Learn how to identify the different species of birds that inhabit the field, meadows and marshes of the Piedmont. Hospitality 7 PM; meeting/program 7:30.
2/20/19	7 – 9 PM	Kinder Farm Park	Meeting: Anne Arundel Bird Club	Host: Anne Arundel Bird Club Contact Barbara Johnson, 410-703-4664 or barbarajohnson222@gmail.com Description: “Maryland’s Sparrows” with Bonnie Ott. Bonnie is renowned in Maryland for her field expertise and wildlife photography. Birders flock to her field trips, where they can count on Bonnie’s help with difficult-to-ID species, especially sparrows.
2/20/19	7:30 – 9 PM	Caroline County Public Library	Meeting: Caroline County Bird Club	Host: Caroline County Bird Club Description: Movie “Nova’s Bird Brain: Discover the Intelligence of Birds”
2/25/19	7 – 9 PM	MAC Education Center	Meeting: Tri-county Bird Club	Host: Tri-county Bird Club Contact Ellen Lawler at 410-982-8695 or emlawler534@comcast.net for more info. Description: “The chase is on. A year of birding!” presented by club member and retired UMES professor Doug Ruby.
2/26/19	7 – 9 PM	Mt. Aetna Nature Center	Meeting: Washington County Bird Club	Host: Washington County Bird Club Call 301-797-8454 with questions Description: Program TBA
3/01/19	6 – 9 PM	Churchville Presbyterian Church	Meeting: Harford Bird Club	Host: Harford Bird Club Description: Nick Spigler, Youth Birder and HBC member, will present his personal experience at ABA Camp Avocet in Lewes, DE at height of migration season. Plus Awards night. Dinner at 6 PM; Meeting, 7:30; Presentation 7:45.

Questions? Contact the calendar editor: calendar@mdbirds.org



CONDUCT RESEARCH ON THE CHESAPEAKE BAY

Maryland Sea Grant offers fifteen undergraduates the opportunity to conduct marine research on the Chesapeake Bay. During this 12-week program, each student will work with science mentors on an individual research project.

Research areas:

- benthic environment
- climate change
- environmental chemistry
- environmental contaminants
- estuarine processes
- fisheries
- modeling and analysis
- molecular biology and genetics
- physical oceanography

12-WEEK RESEARCH PROGRAM INCLUDES:

- orientation week with research cruise
- individual project with science mentor
- \$6,000 stipend
- free housing
- round-trip travel expenses

DATES AND APPLICATION

Program dates: May 19–August 11, 2019

Application due date: February 15, 2019

Online application: mdsg.umd.edu/reu

WHO SHOULD APPLY

We seek students majoring in **biology, chemistry, ecology, physics, engineering, mathematics, and marine and environmental science.** We encourage applicants from colleges and universities where research opportunities are limited and from groups unrepresented in marine and coastal science to apply.



CLASS OF 2018

LOCATION

Fellows will be placed at one of two marine labs: University of Maryland Center for Environmental Science's Chesapeake Biological Laboratory in Solomons, Maryland or Horn Point Laboratory in Cambridge, Maryland.



For more information, visit us at mdsg.umd.edu/reu or email reu@mdsg.umd.edu

REU summer fellowships are supported by the National Science Foundation



POSTMASTER: TIME-DATED MATERIAL—PLEASE EXPEDITE

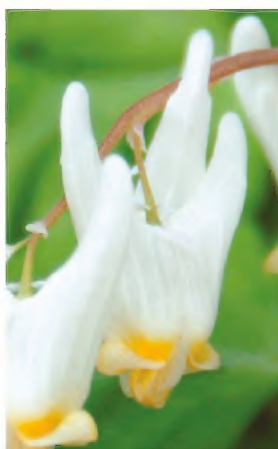
MARYLAND ORNITHOLOGICAL
SOCIETY, INC.
P.O. Box 105, Monrovia, MD 21770-0105

Nonprofit Org.
U.S. POSTAGE
PAID
Frederick, MD
Permit No. 625

NEW RIVER BIRDING & NATURE FESTIVAL



- *guided tours
- *best lodging
- *great food
- *good times
- *West Virginia



let's go



April 29 - May 4, 2019

WWW.BIRDING-WV.COM